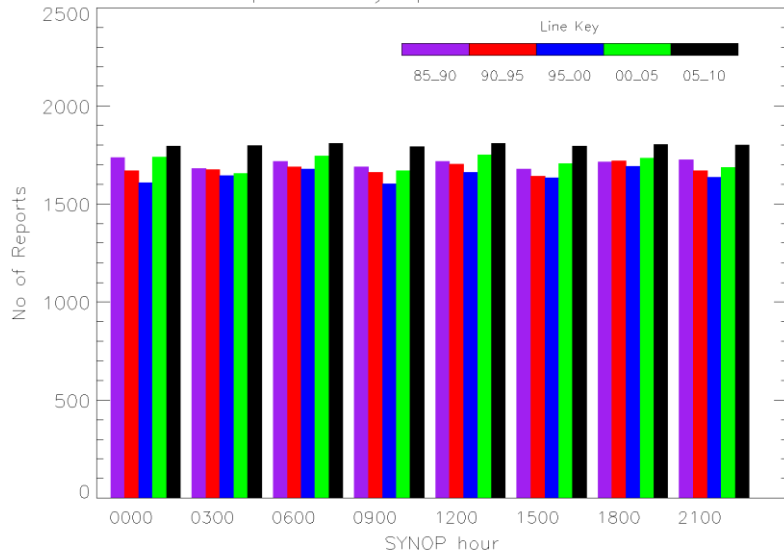
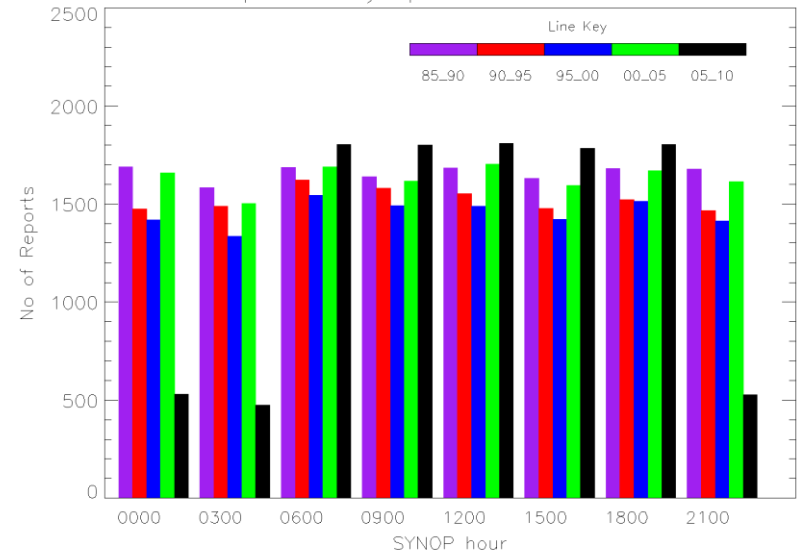


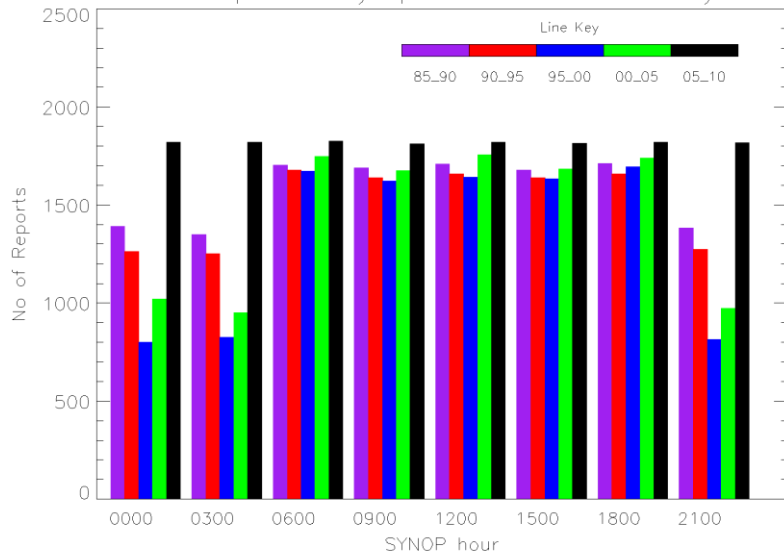
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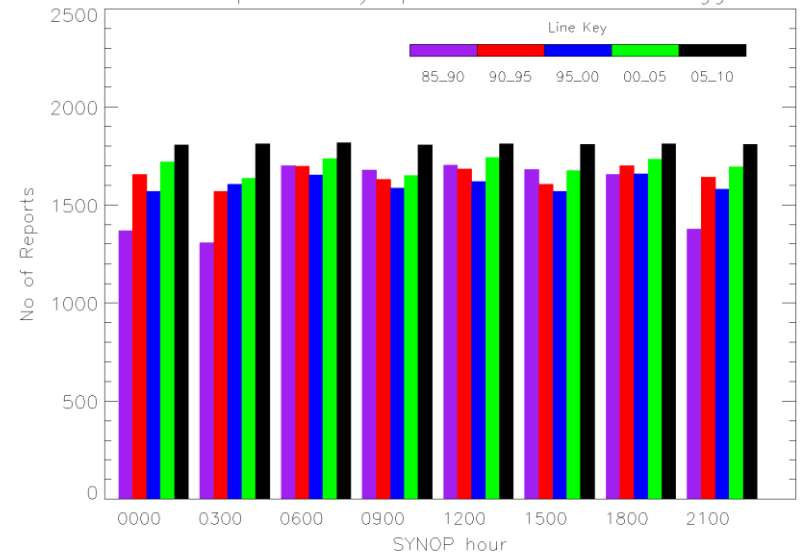
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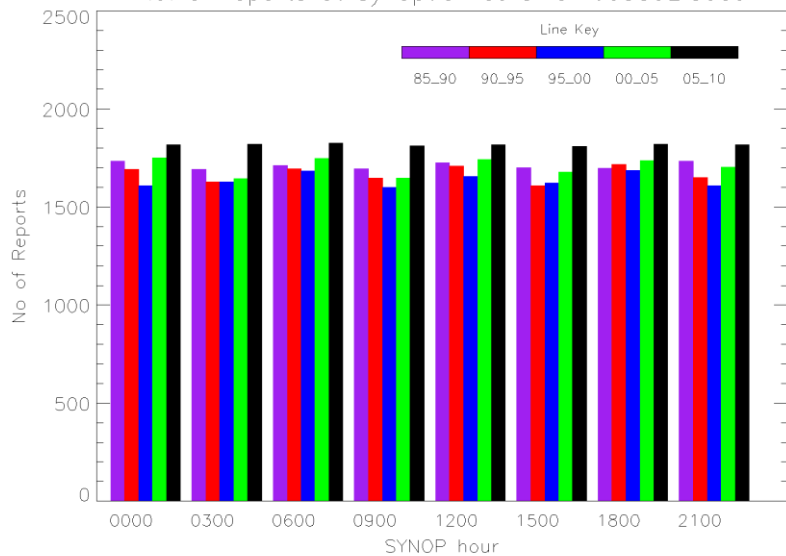
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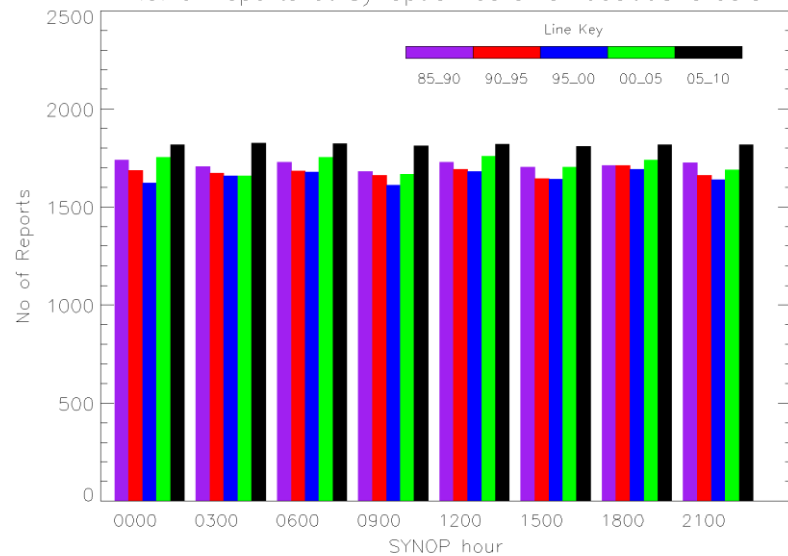
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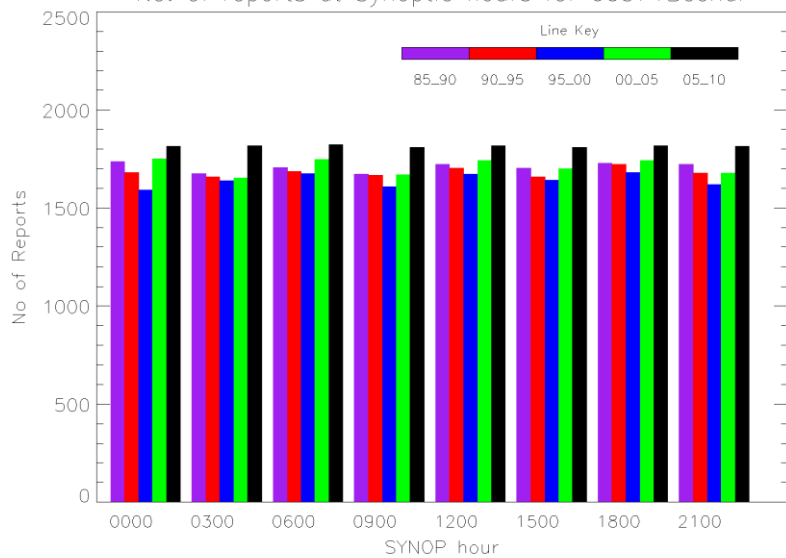
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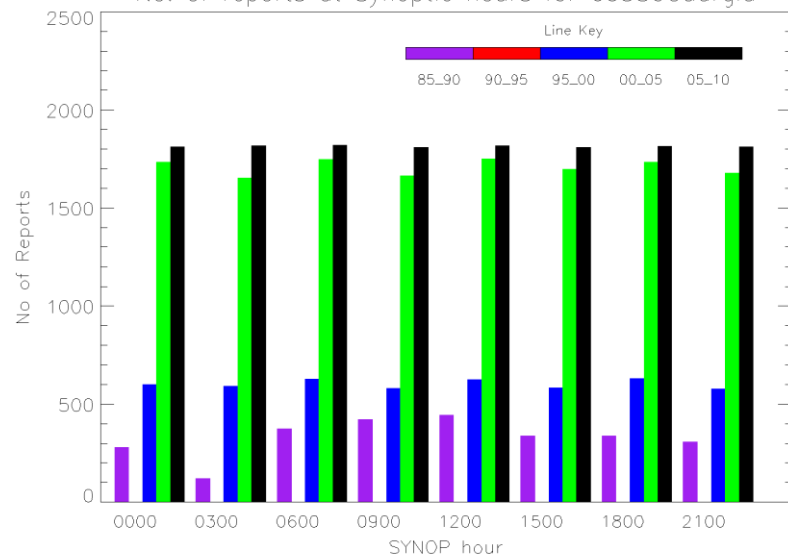
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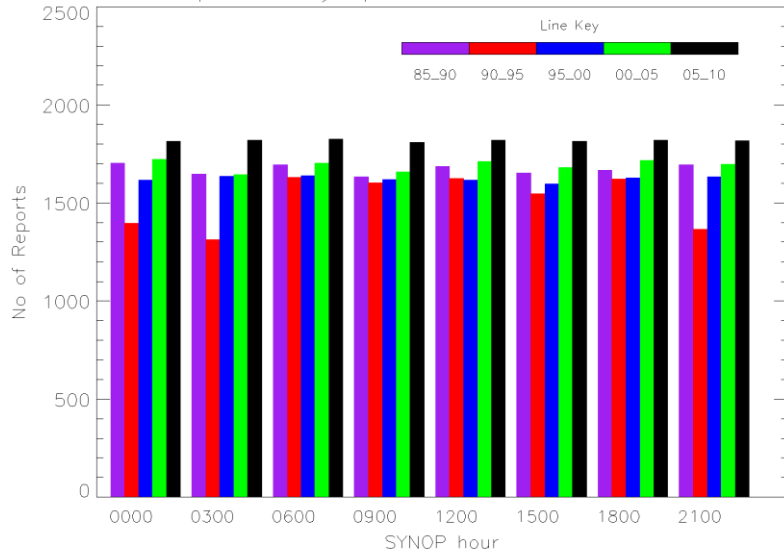
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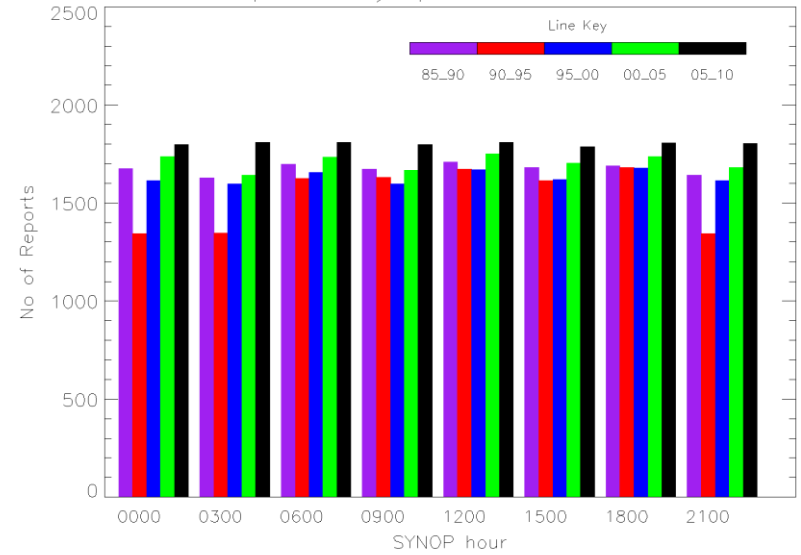
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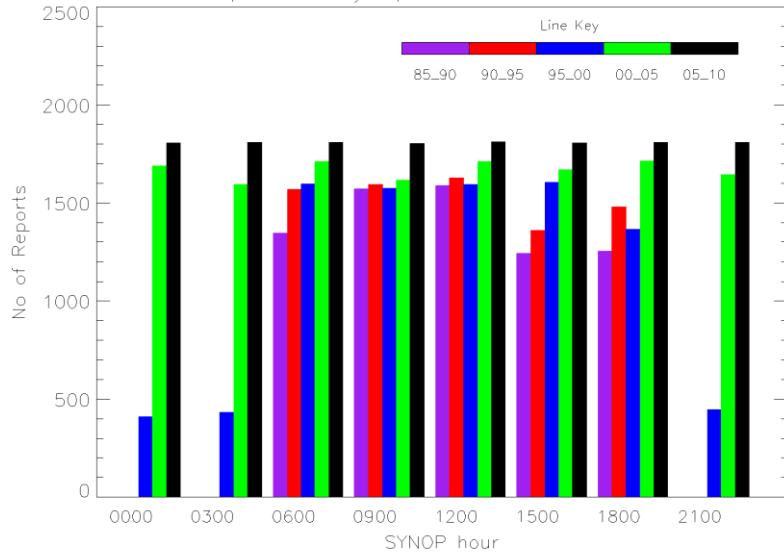
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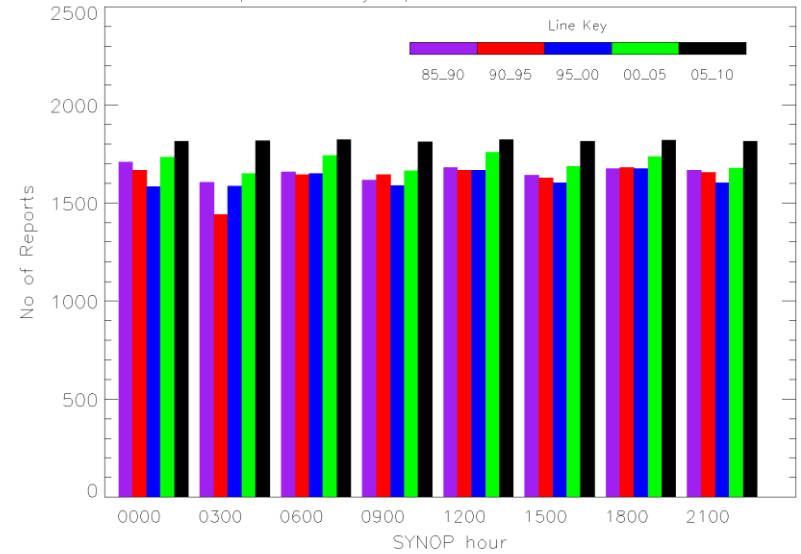
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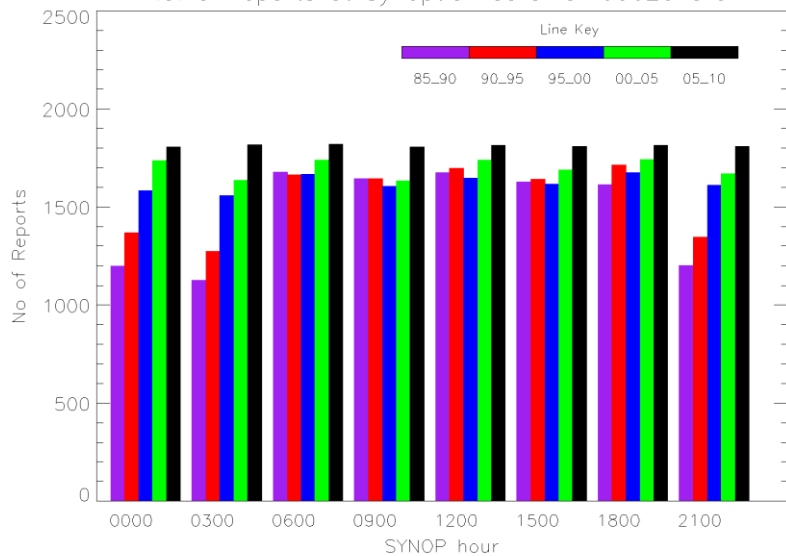
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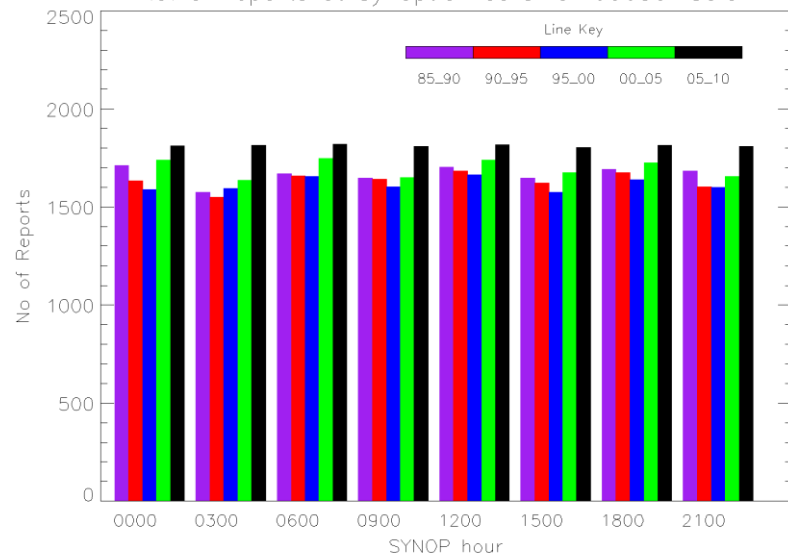
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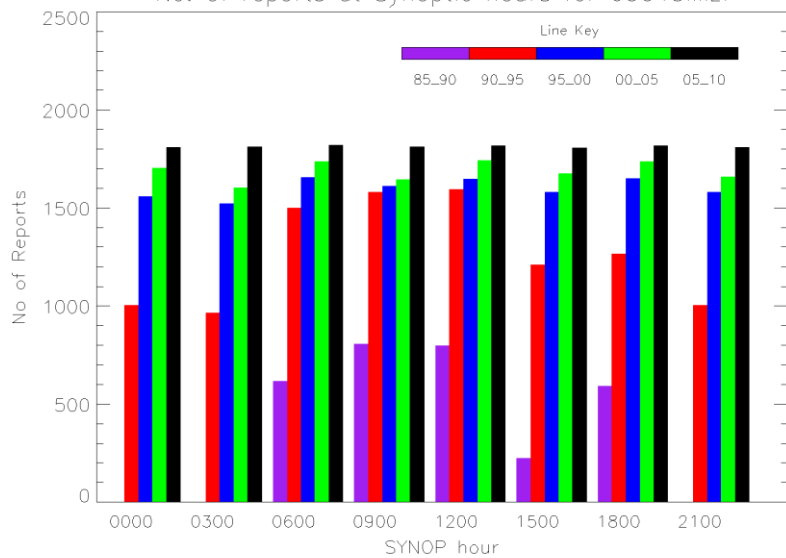
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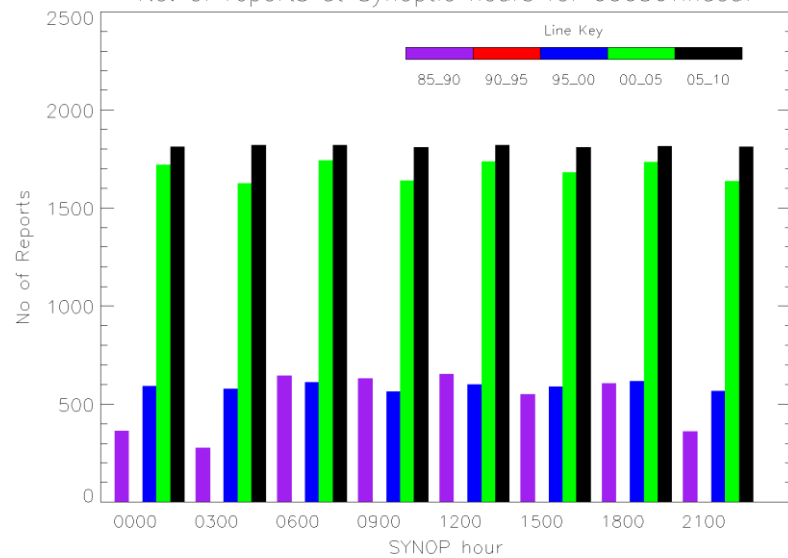
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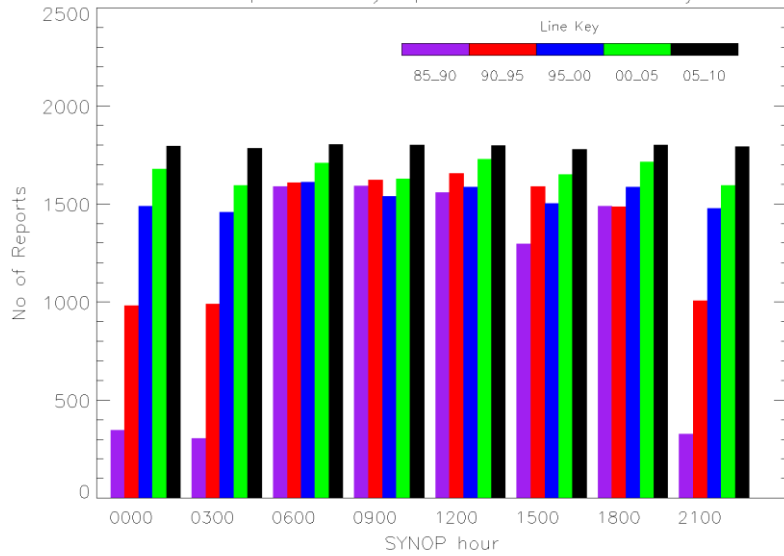


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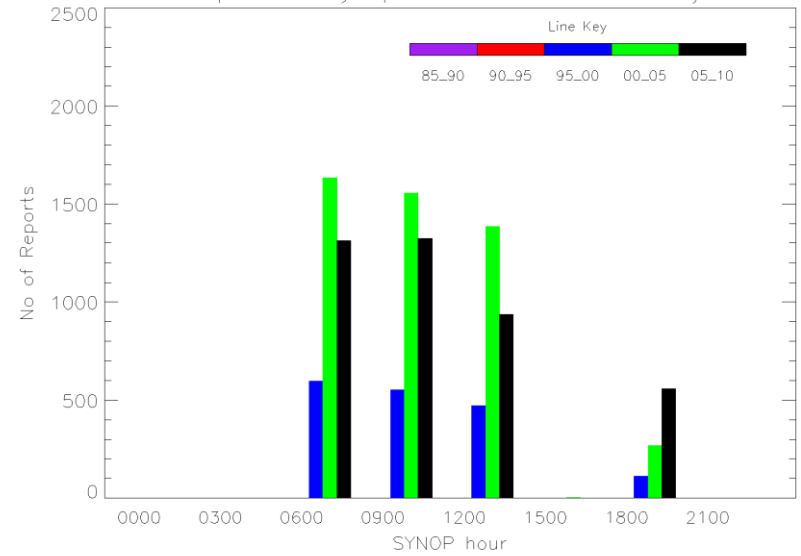




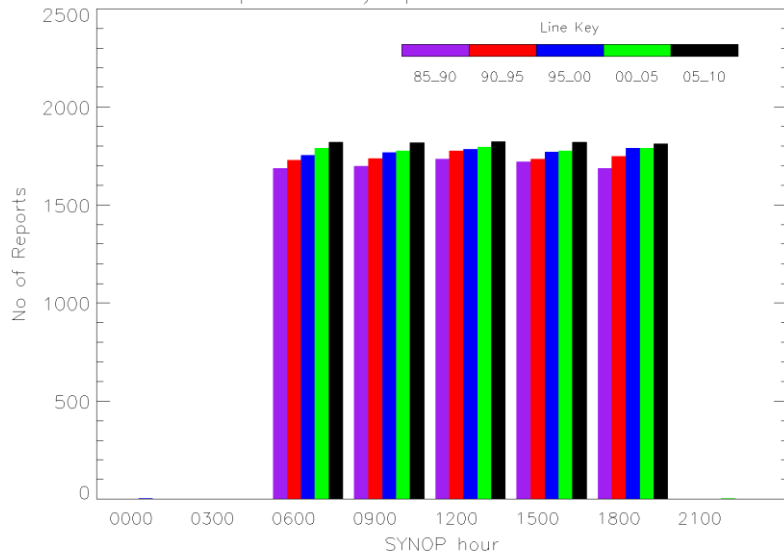
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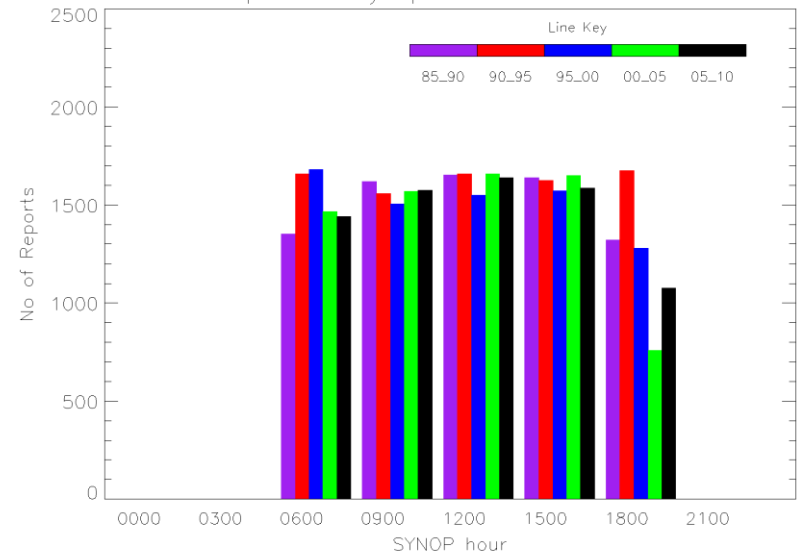
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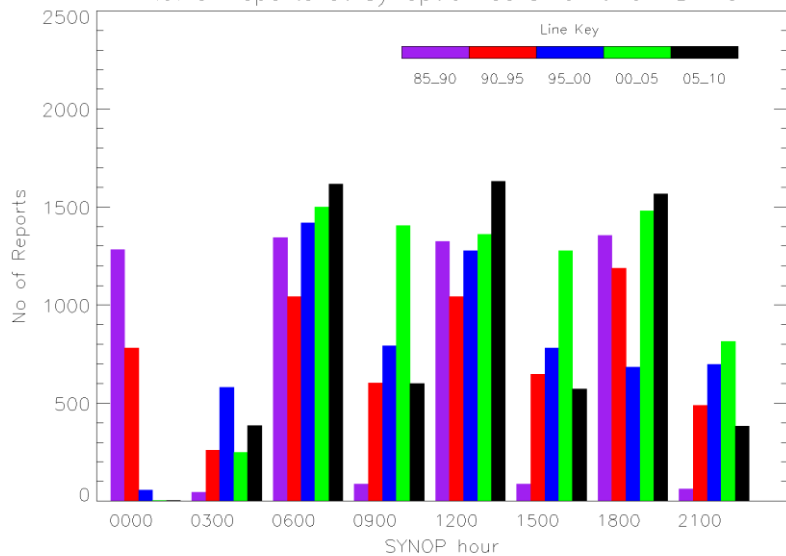
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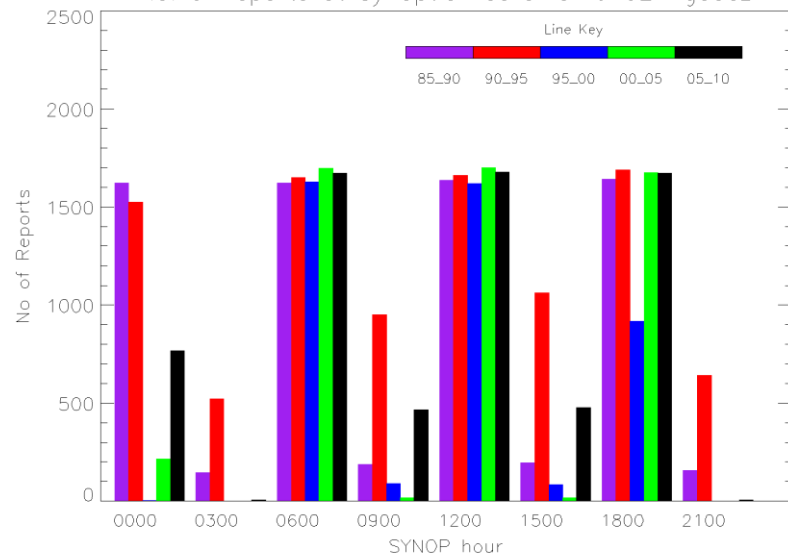
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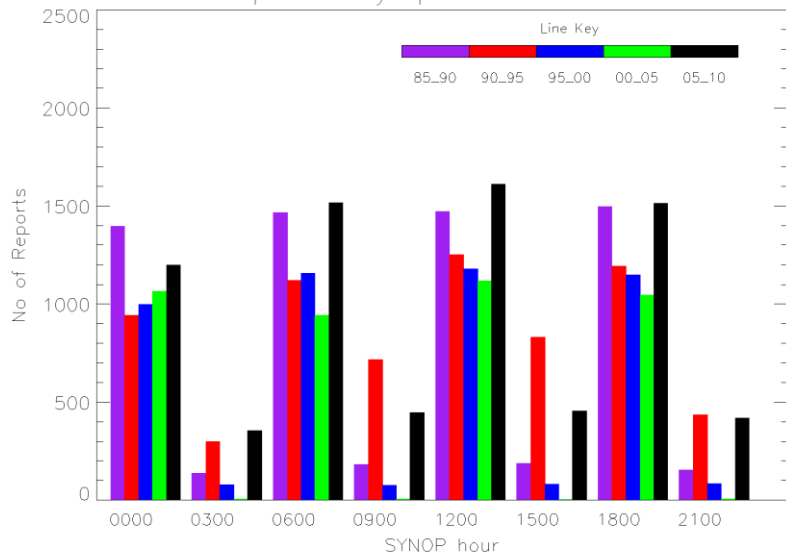
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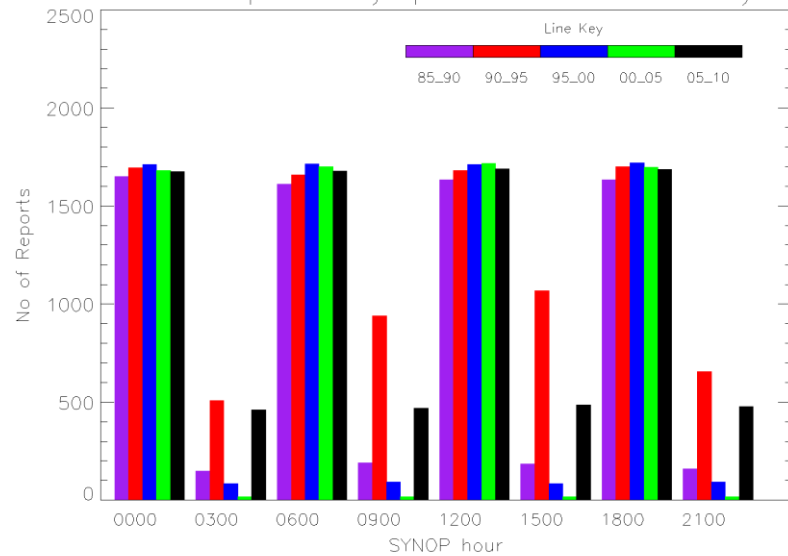
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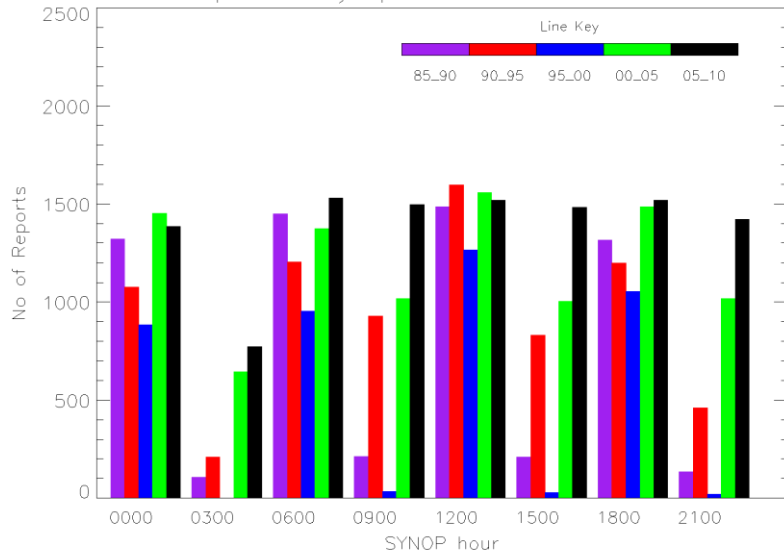
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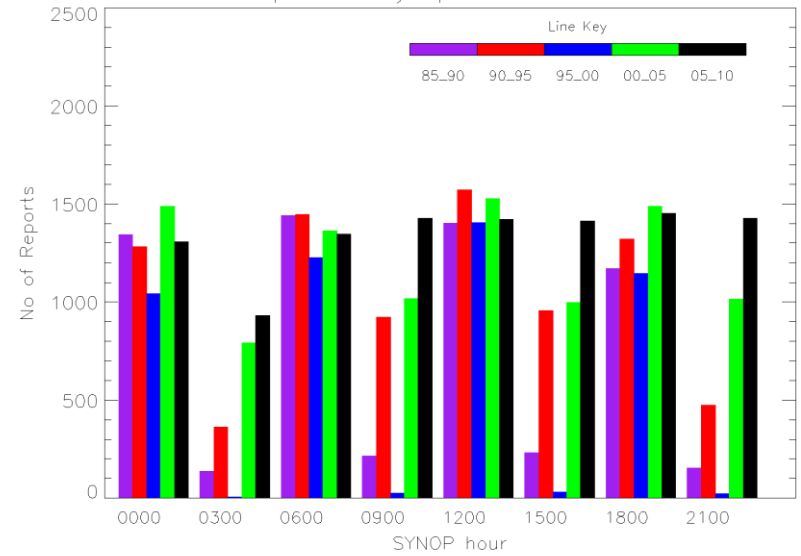
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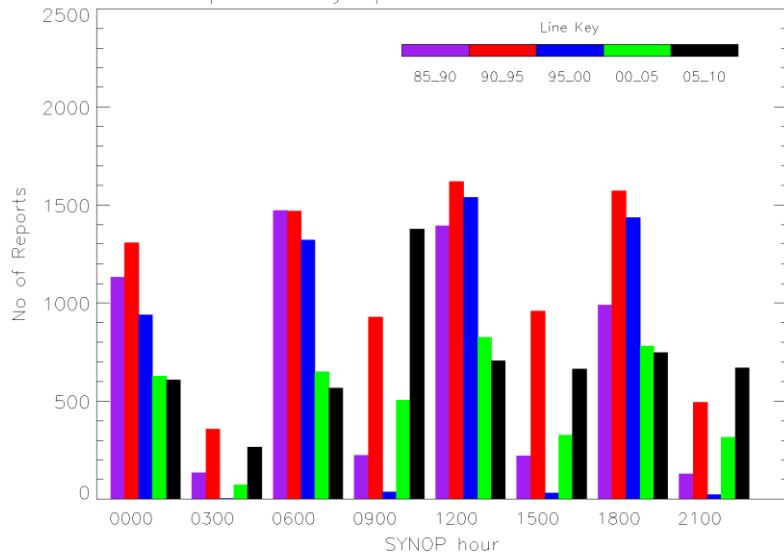
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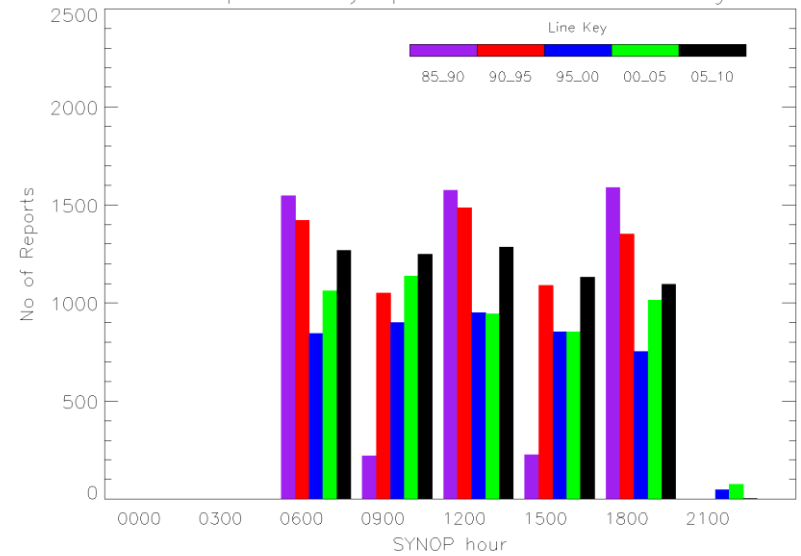
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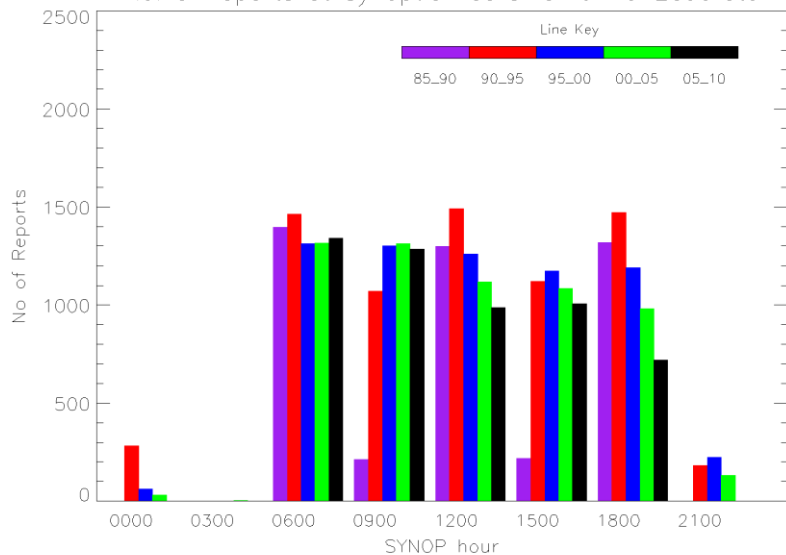
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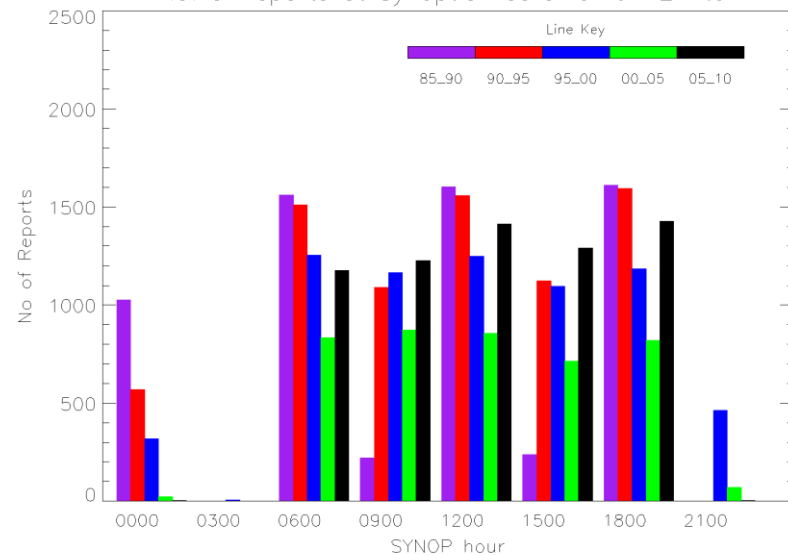
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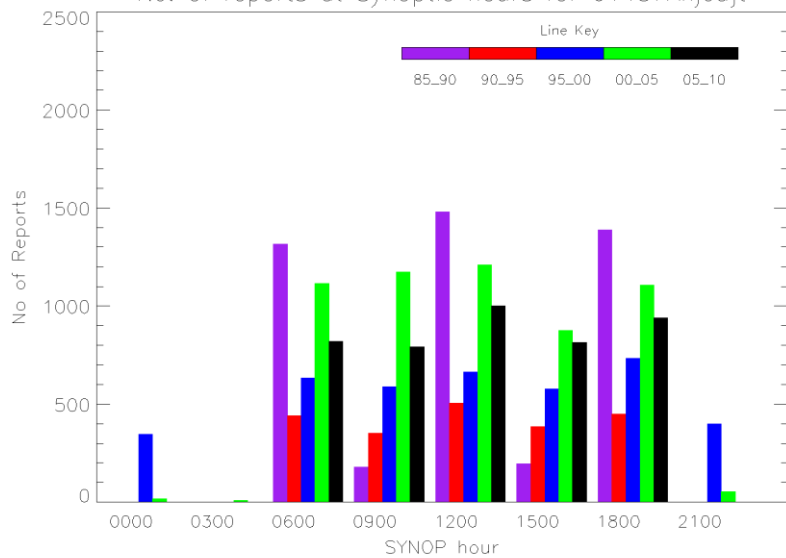
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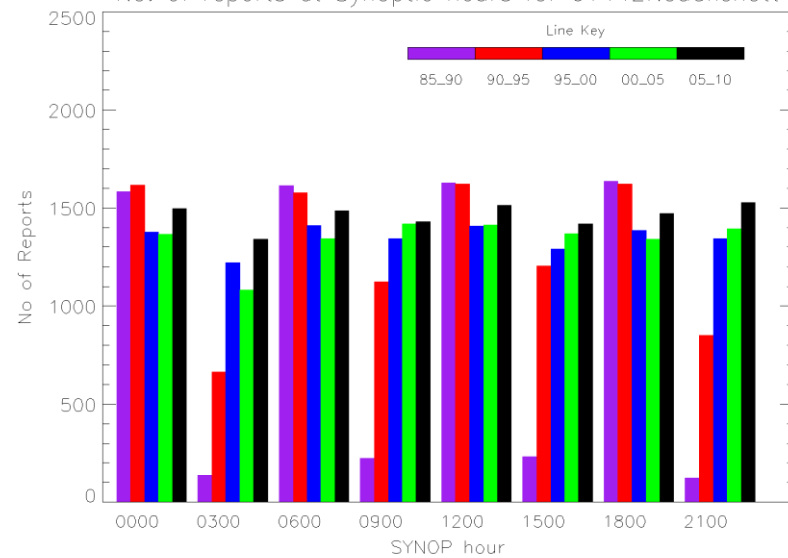
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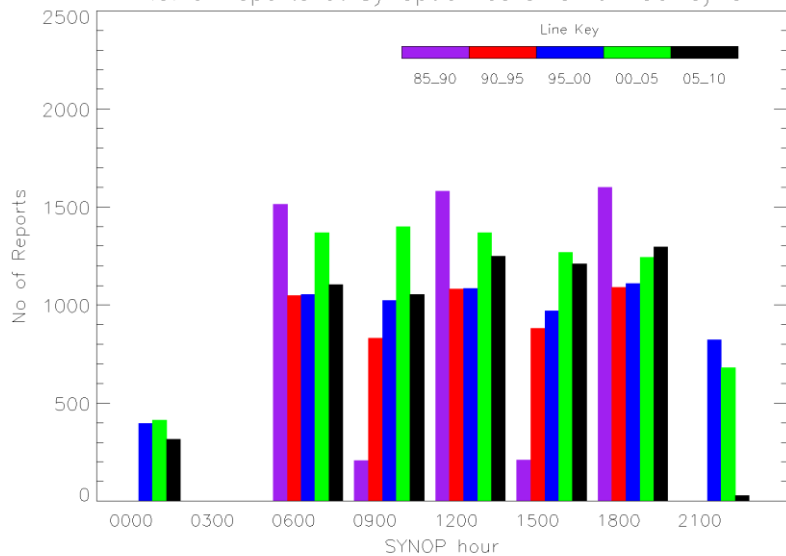
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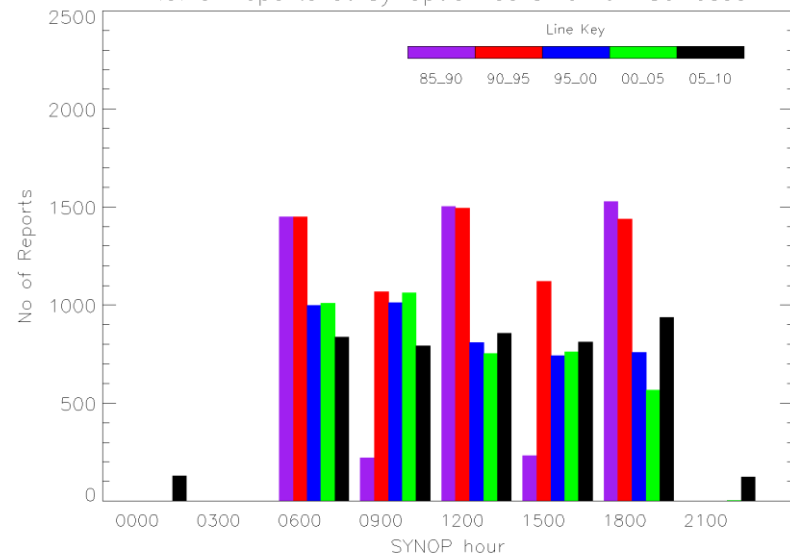
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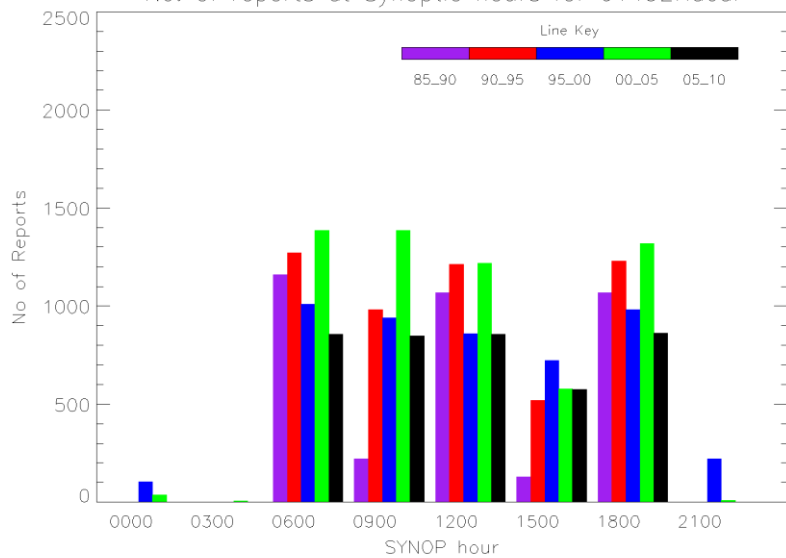
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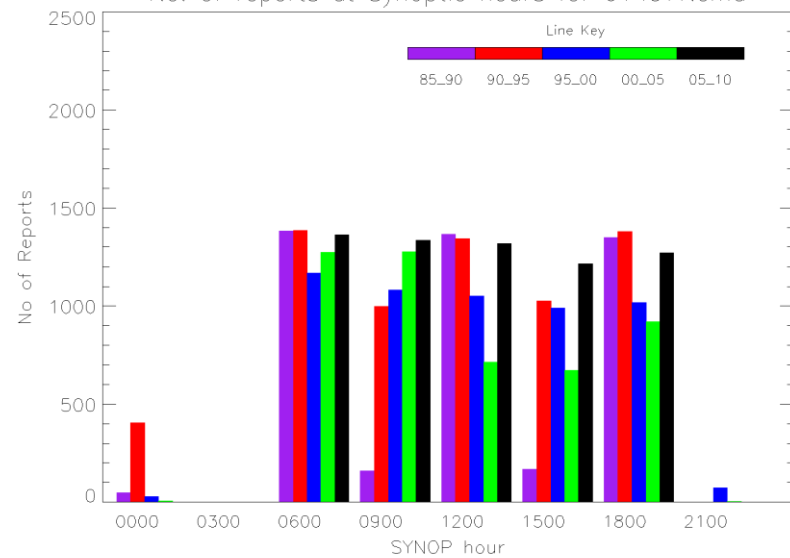
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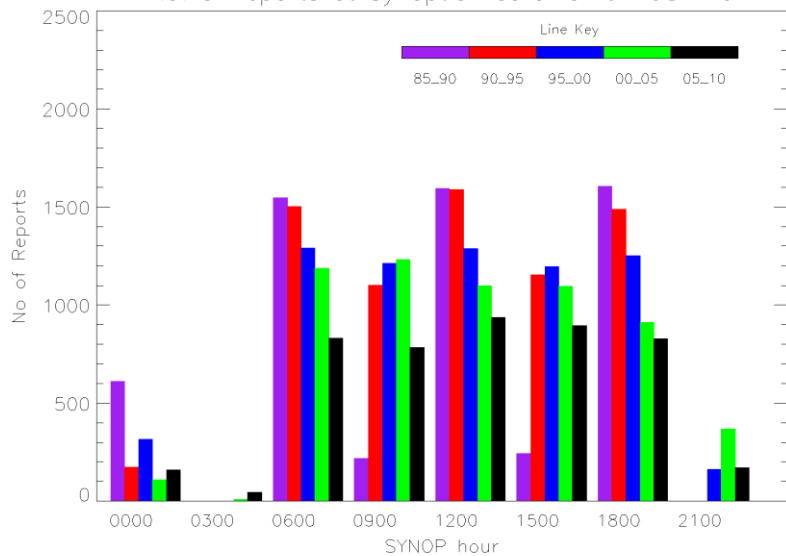
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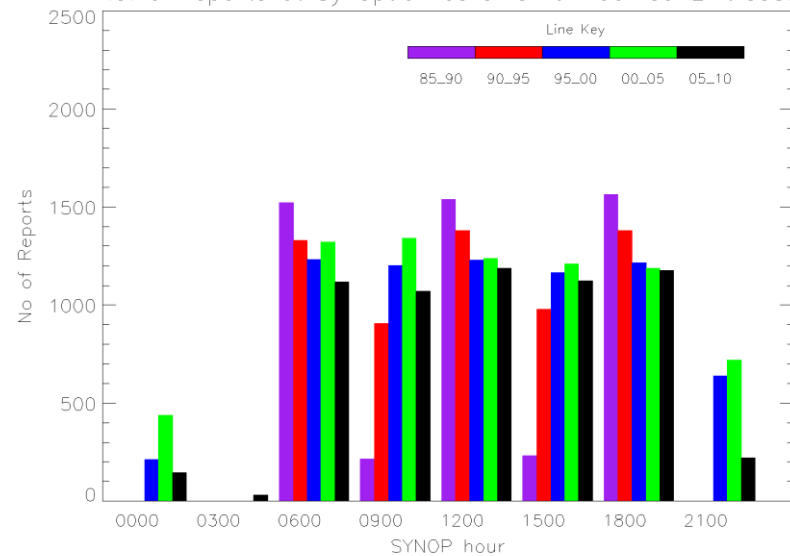
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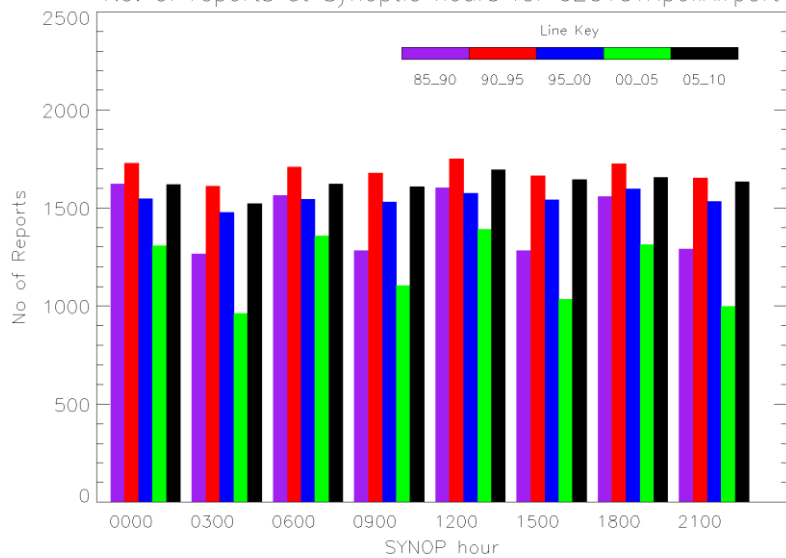
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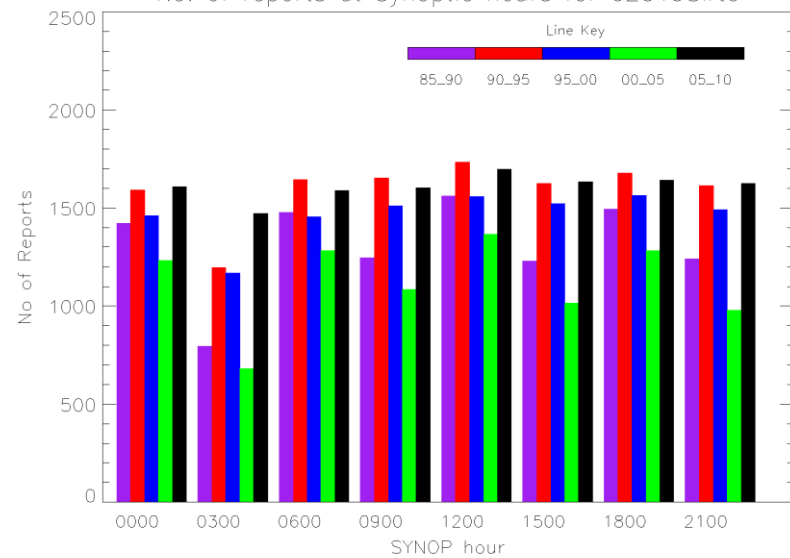
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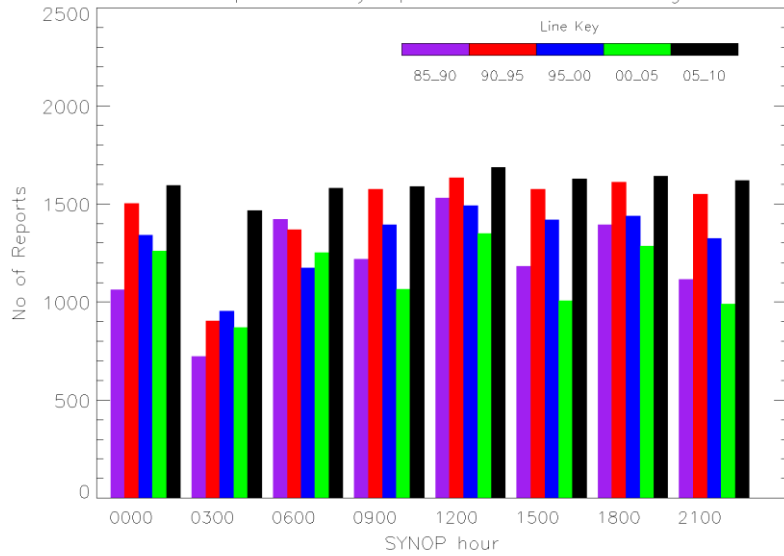
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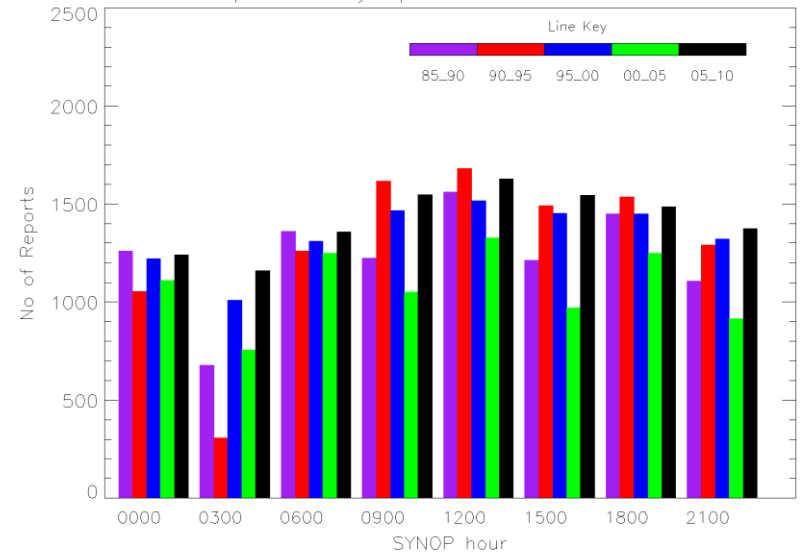
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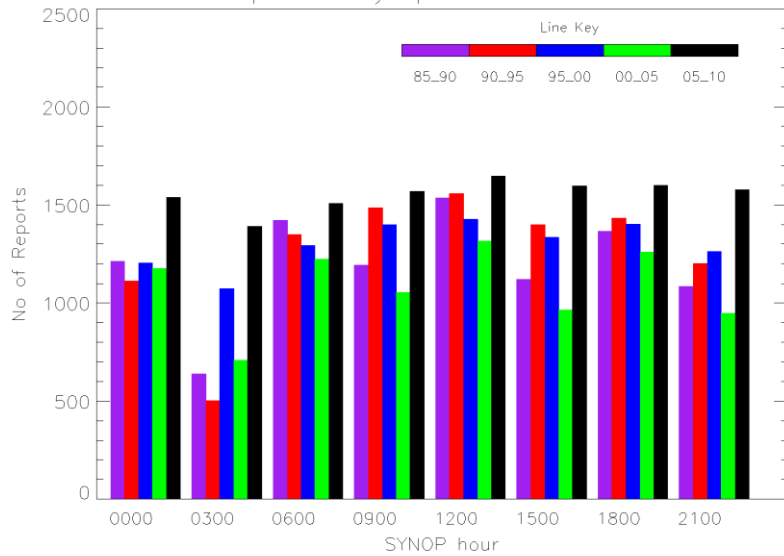
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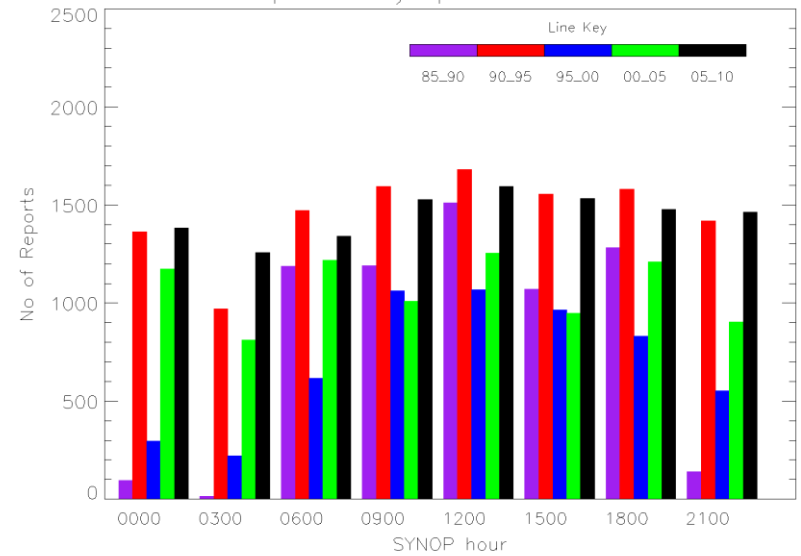
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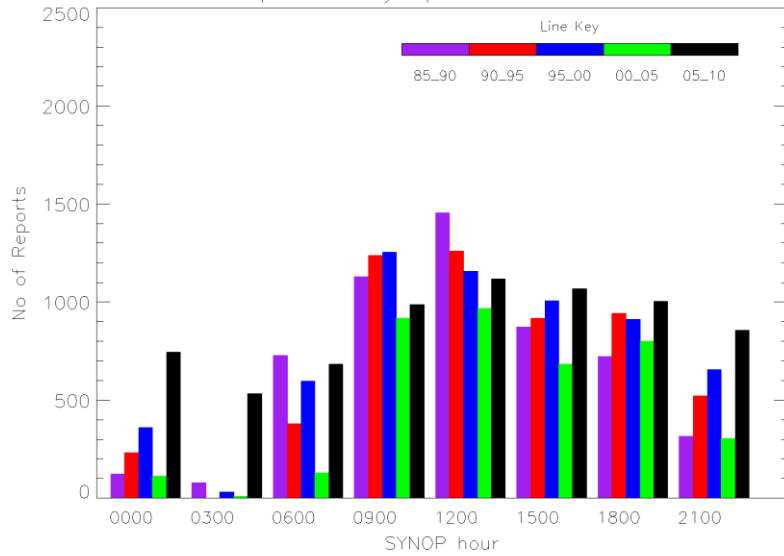
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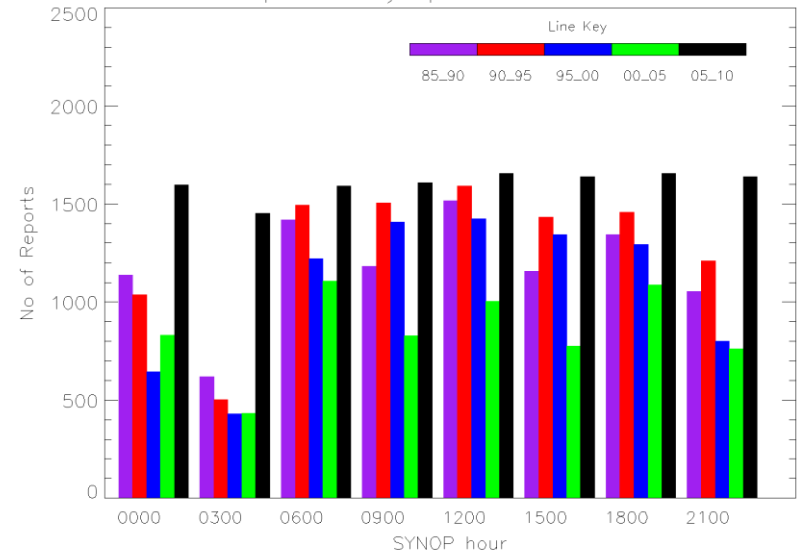
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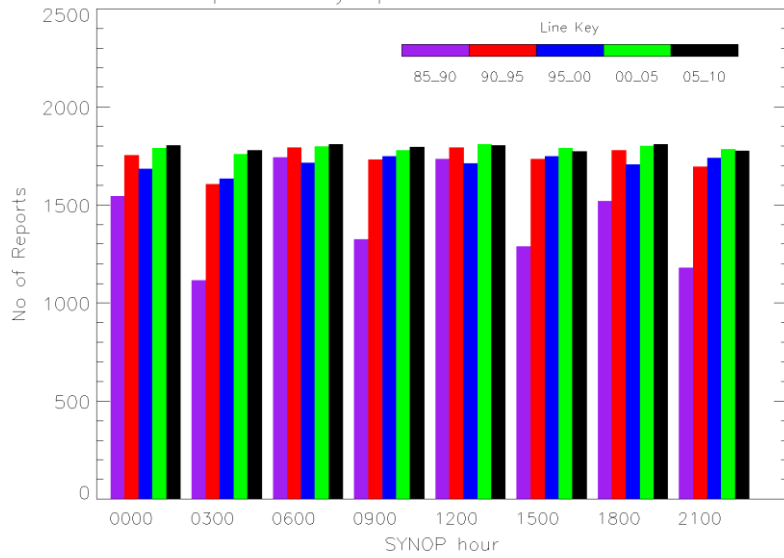
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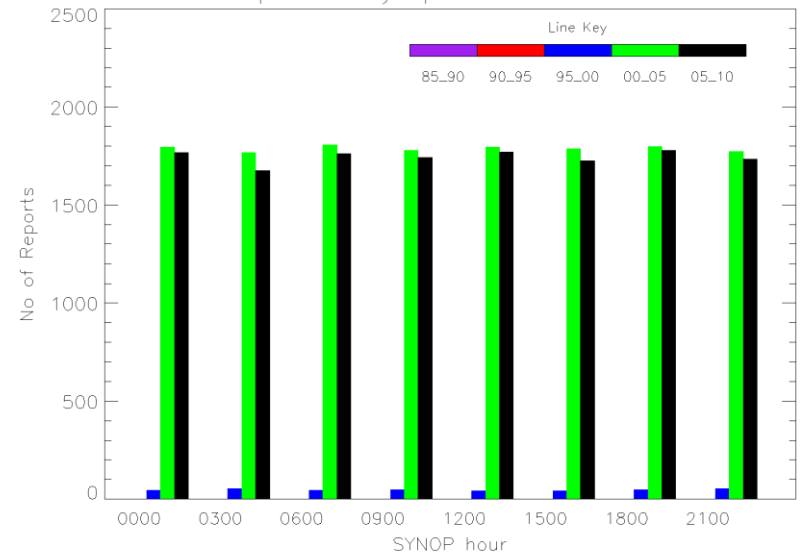
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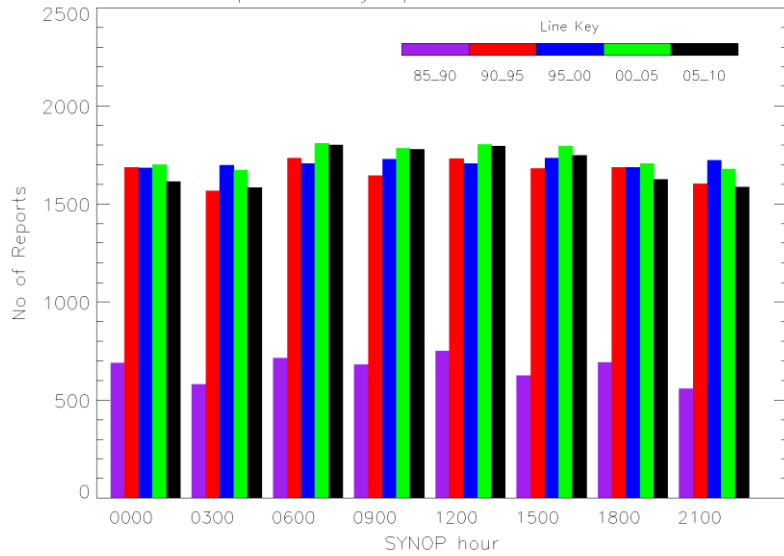


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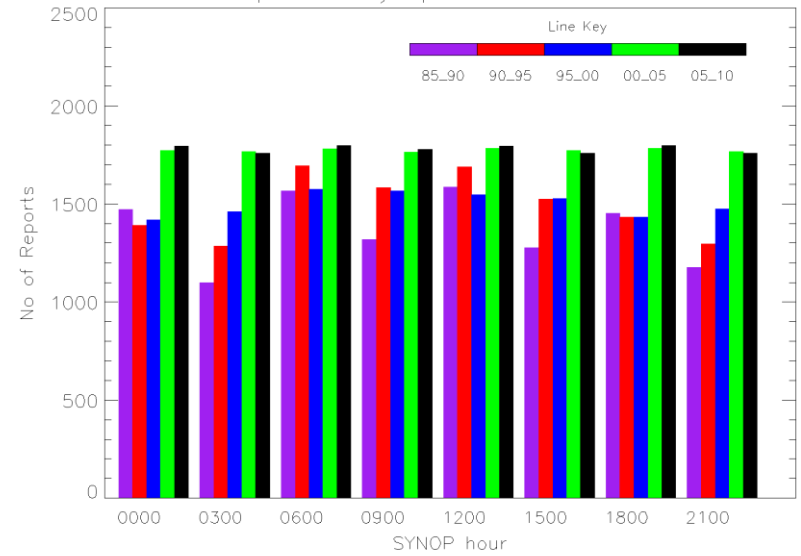




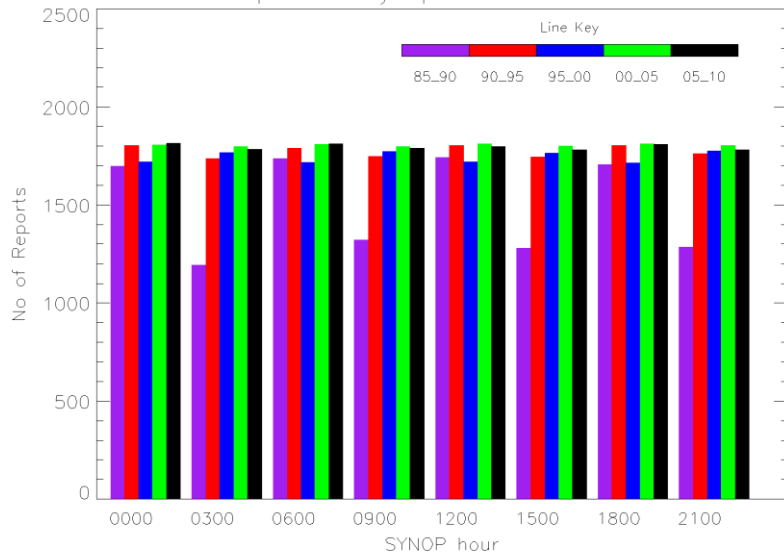
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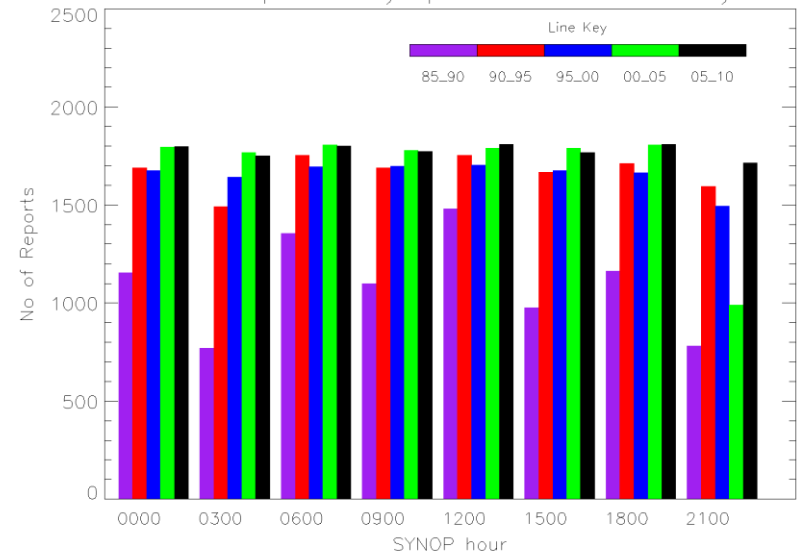
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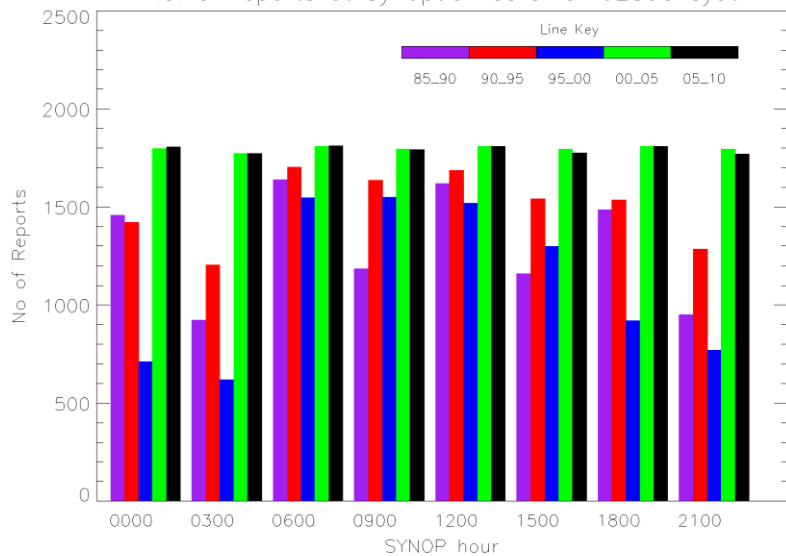
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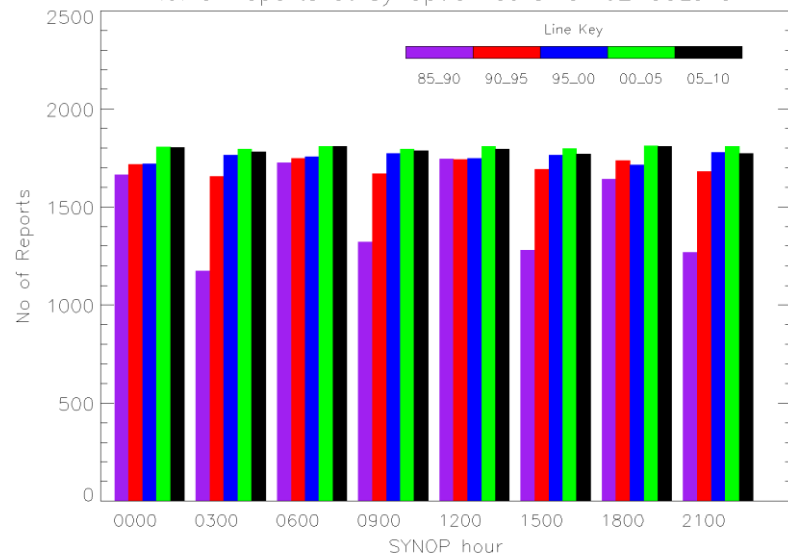
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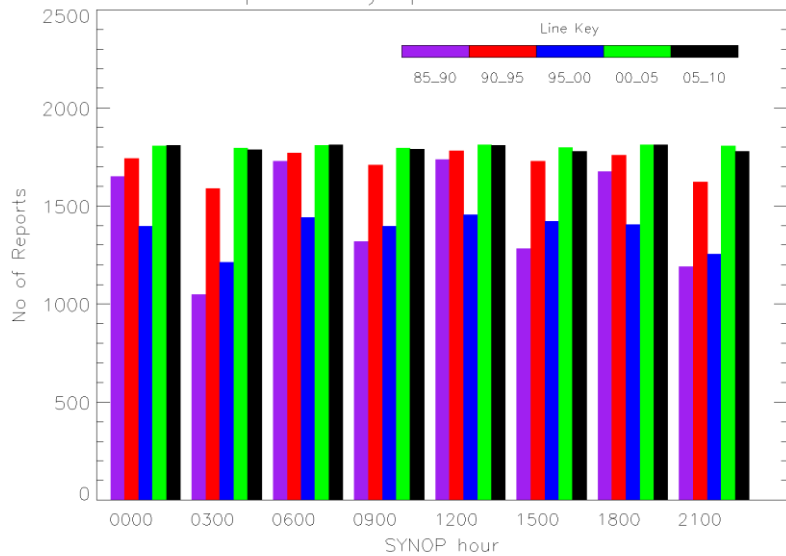
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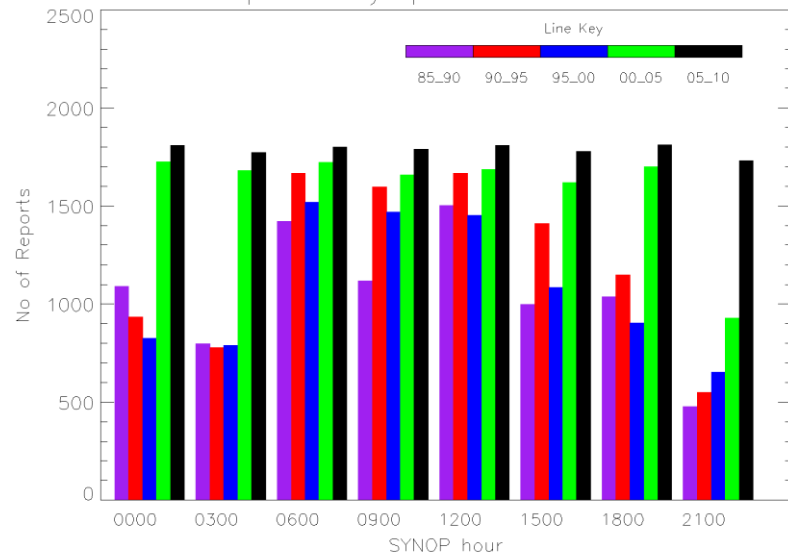
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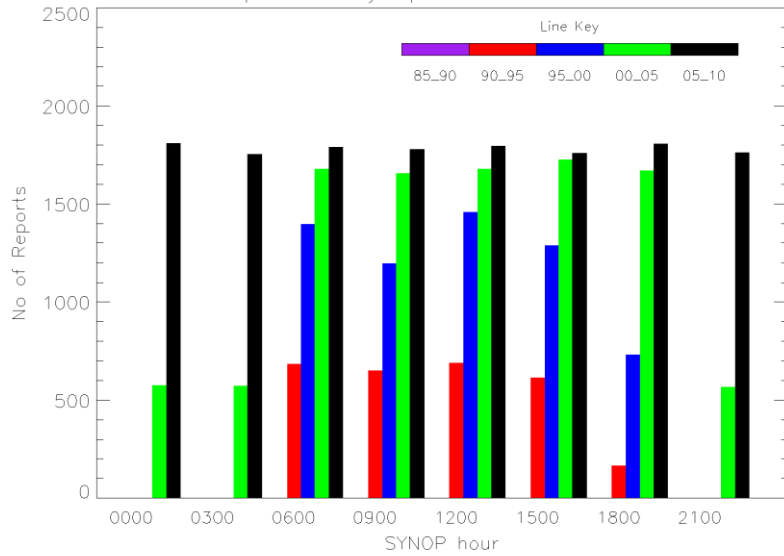
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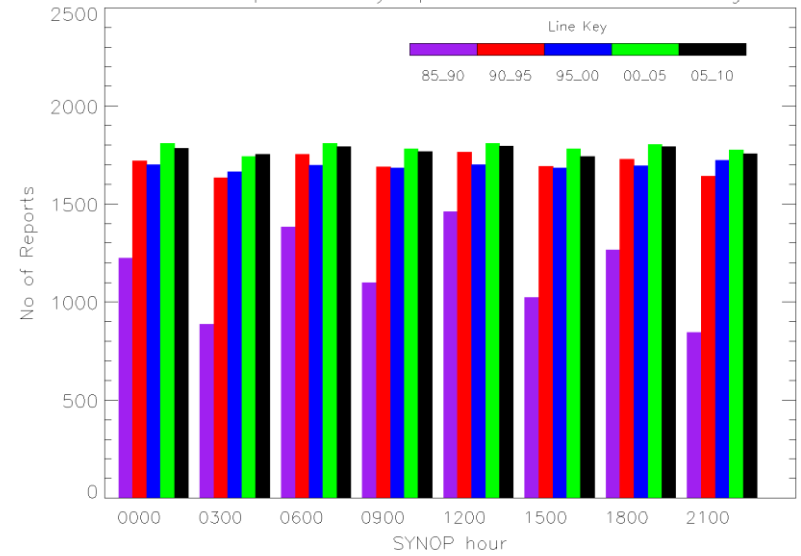
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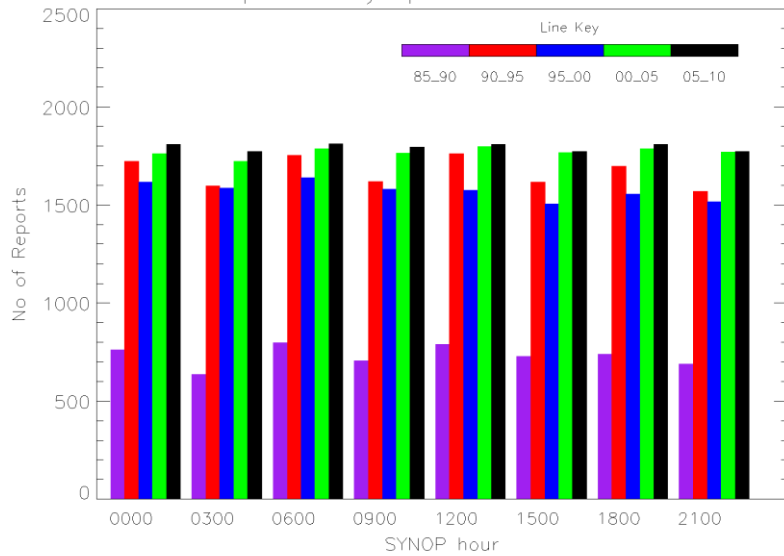
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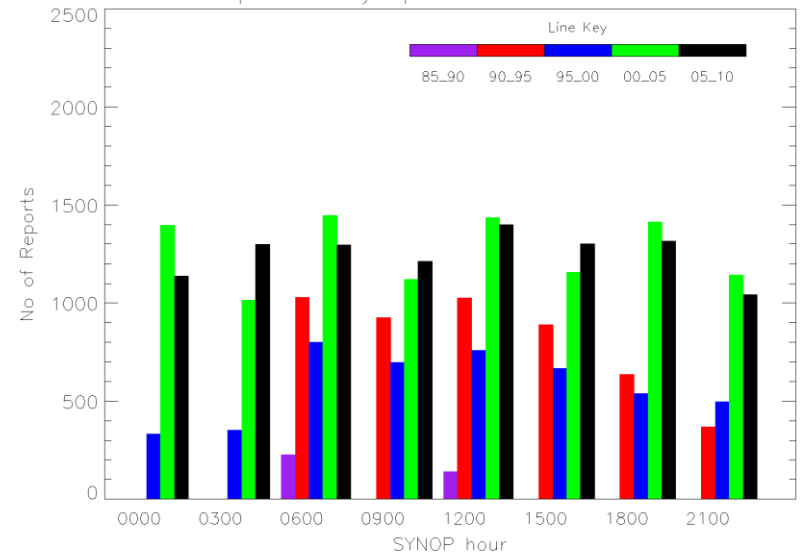
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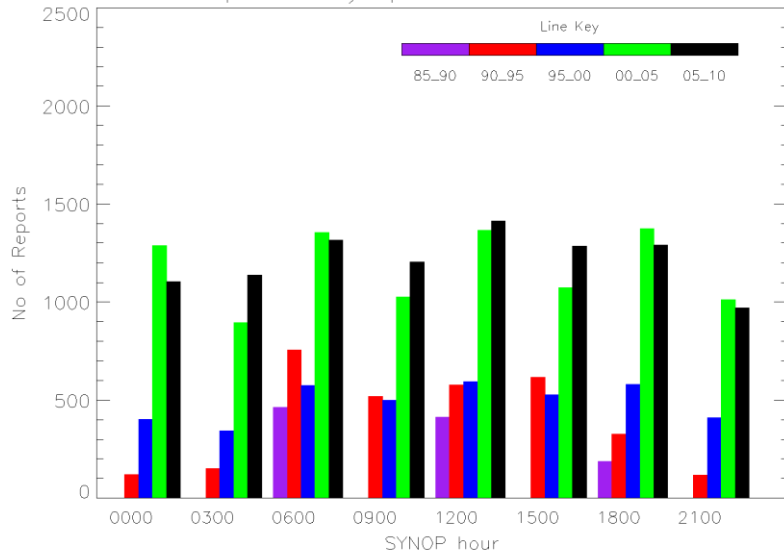
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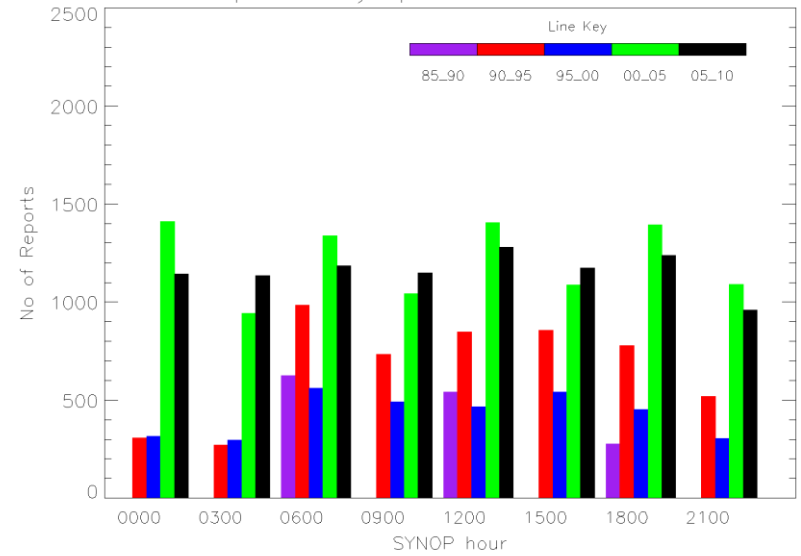
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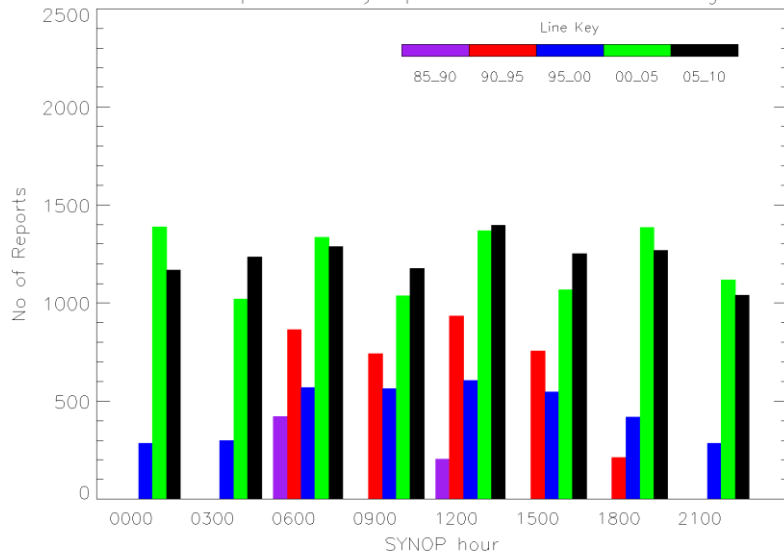
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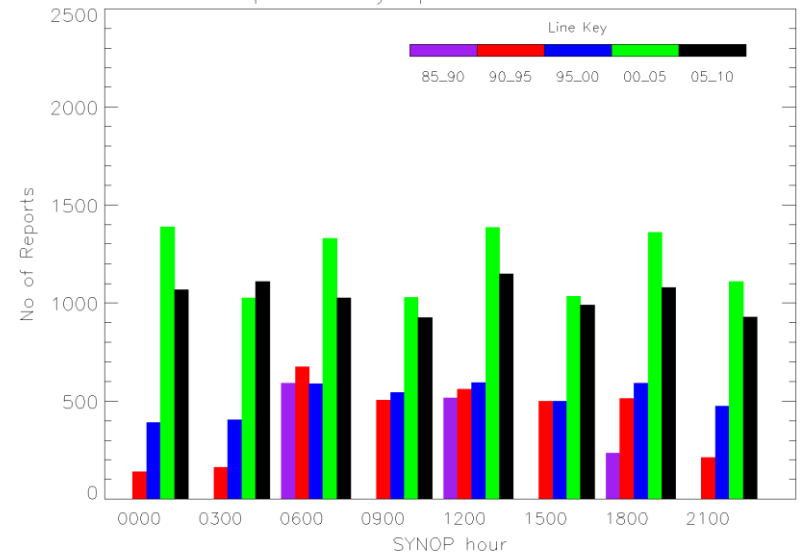
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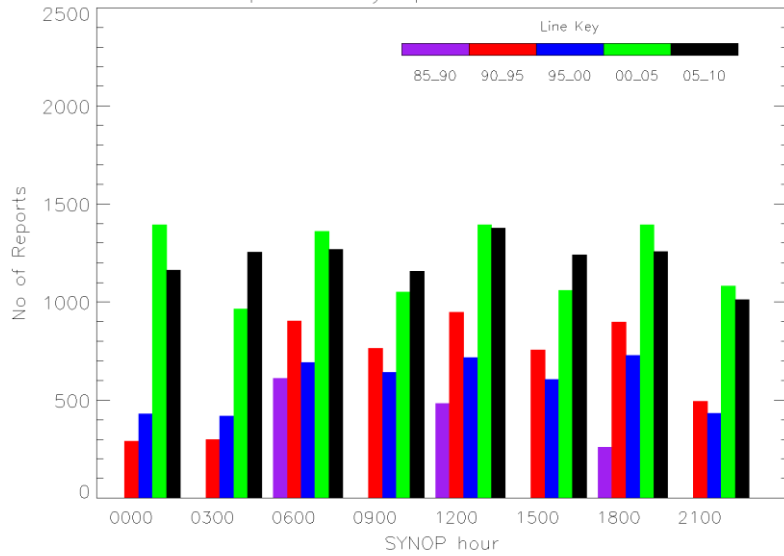
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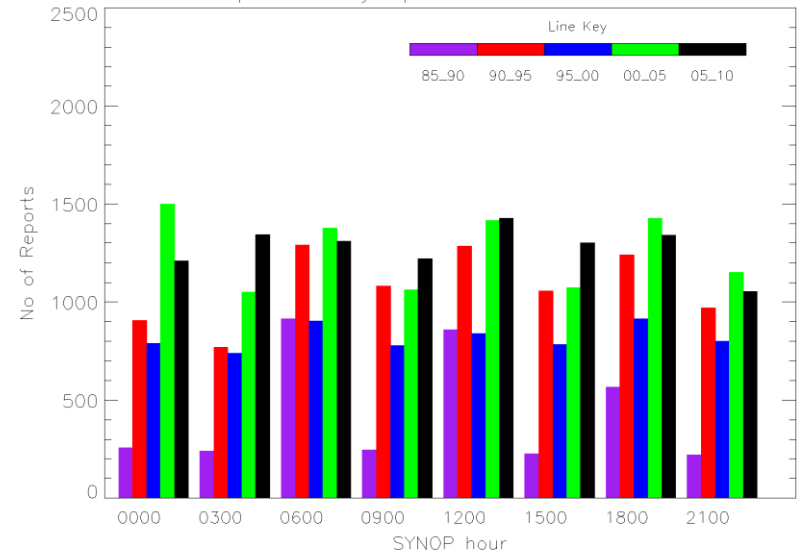
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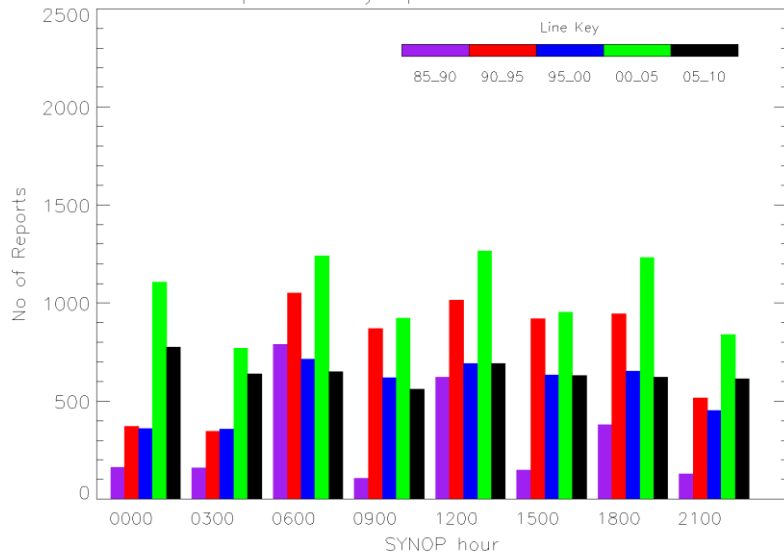
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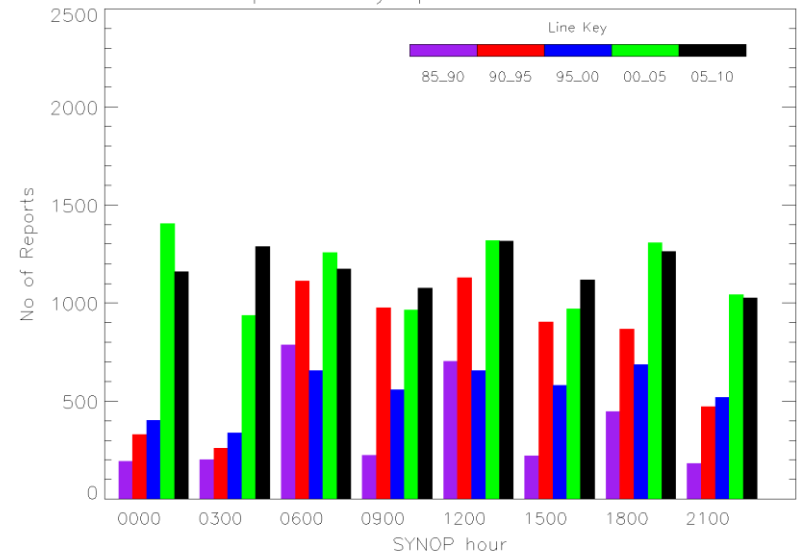
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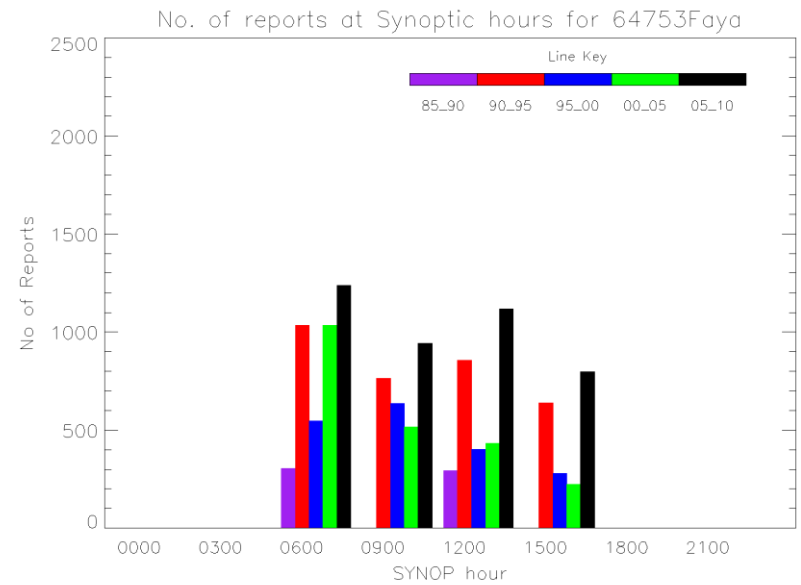
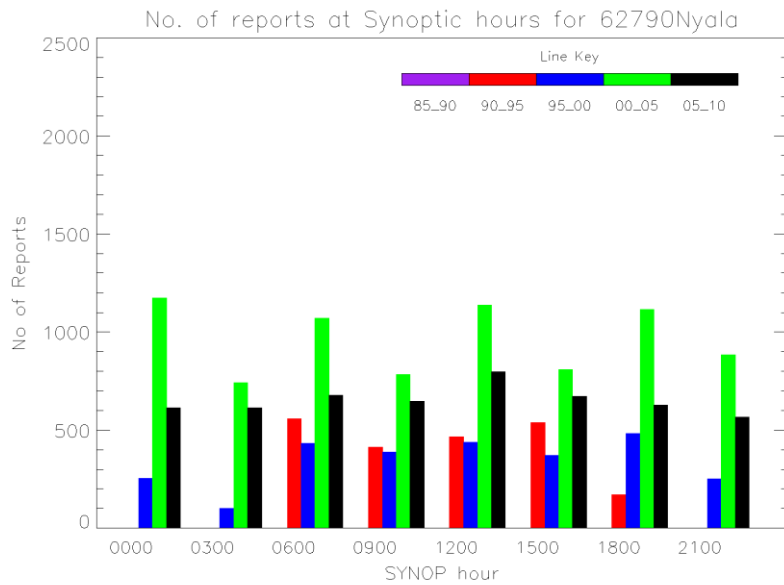
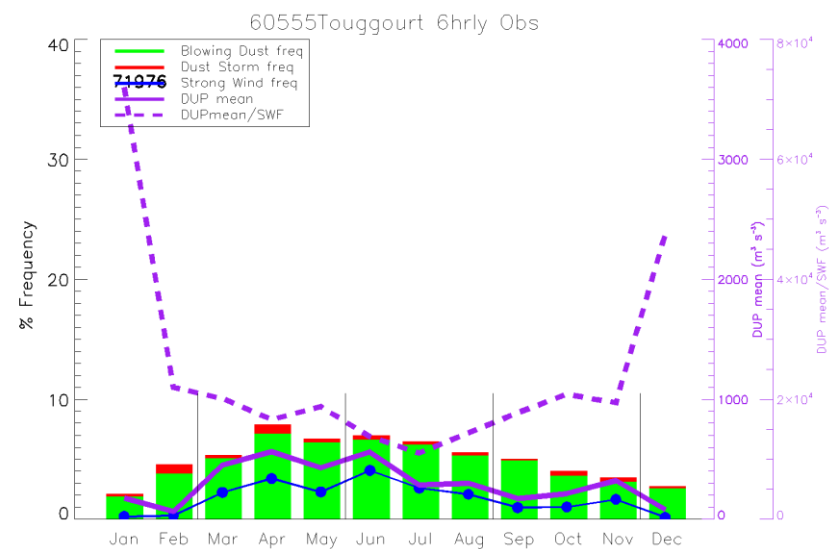
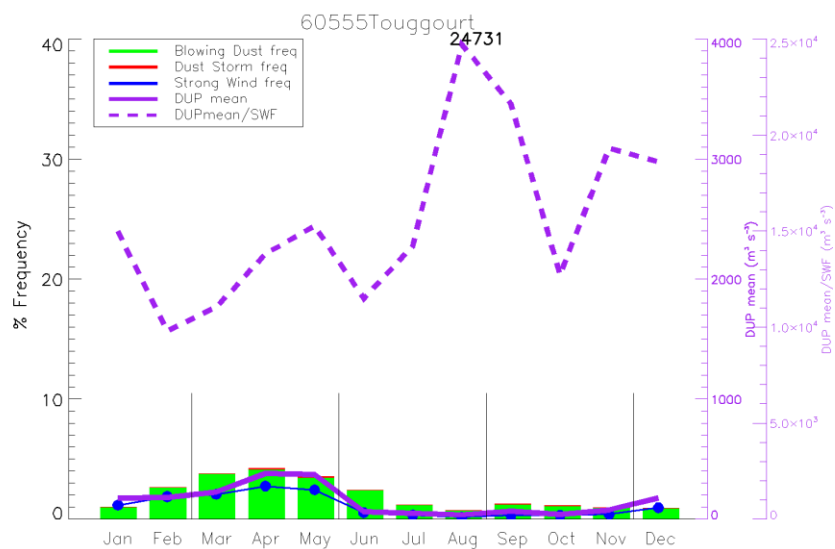
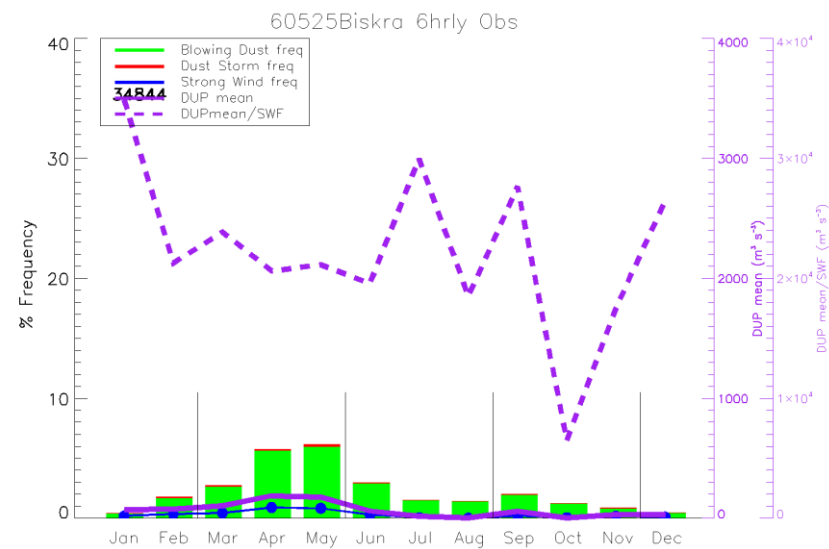
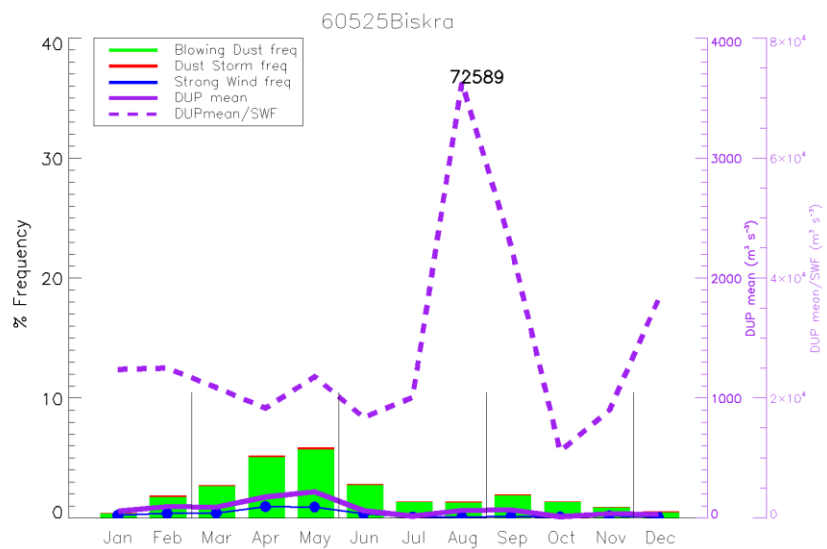
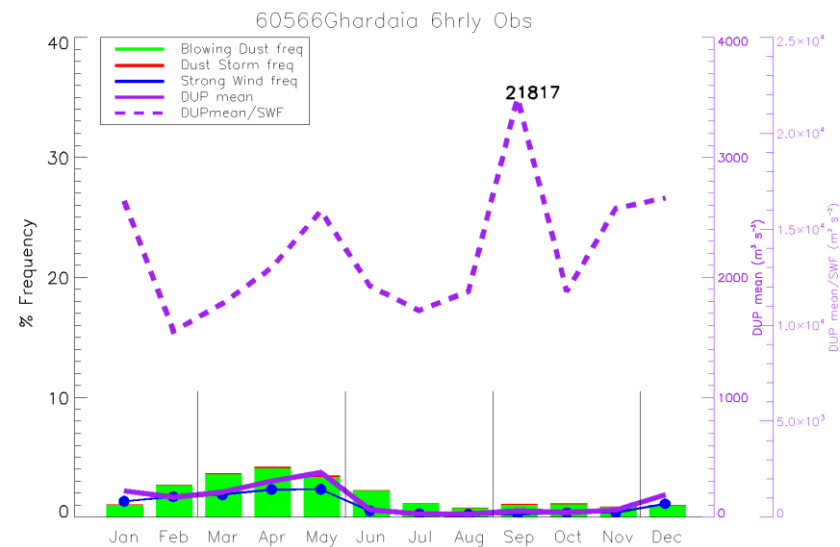
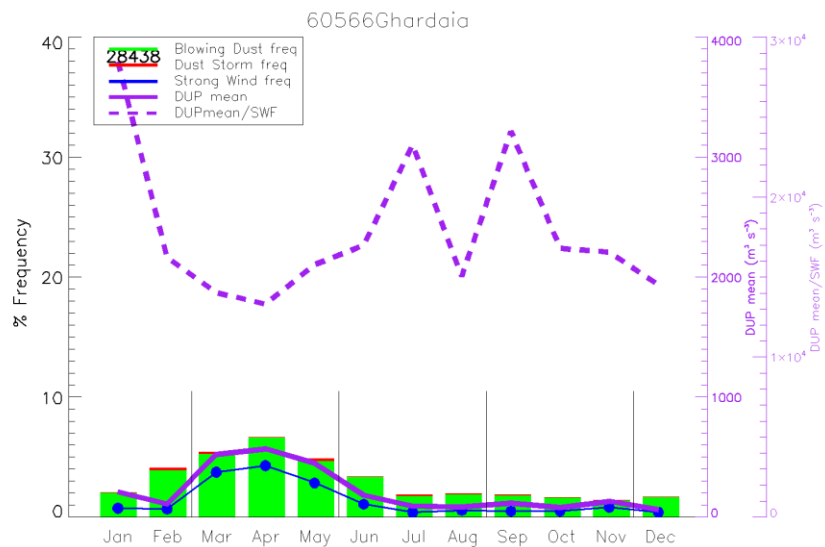
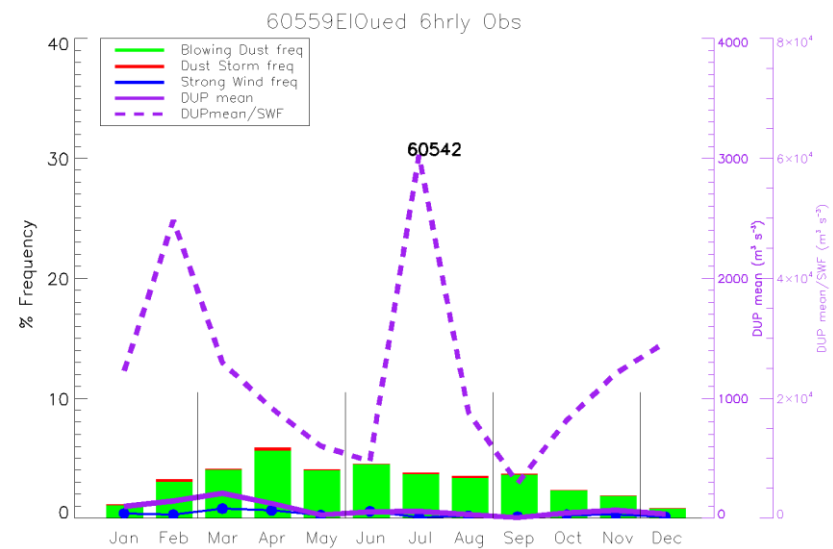
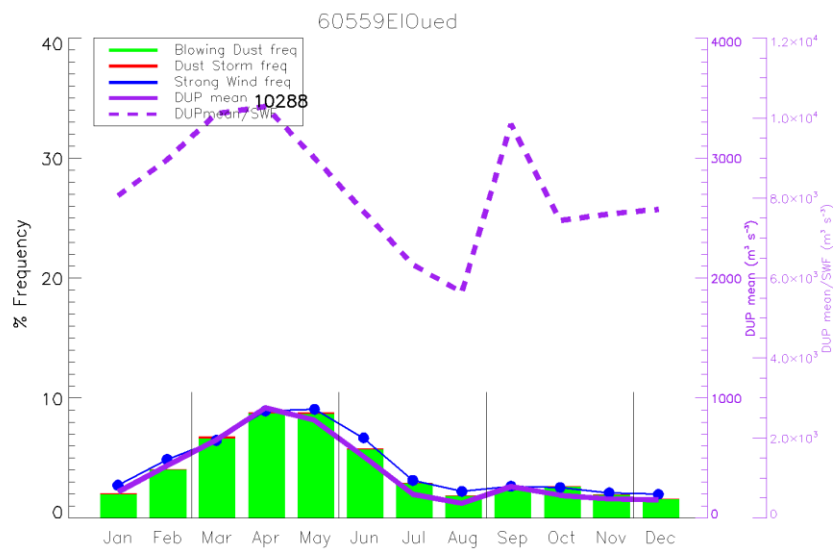
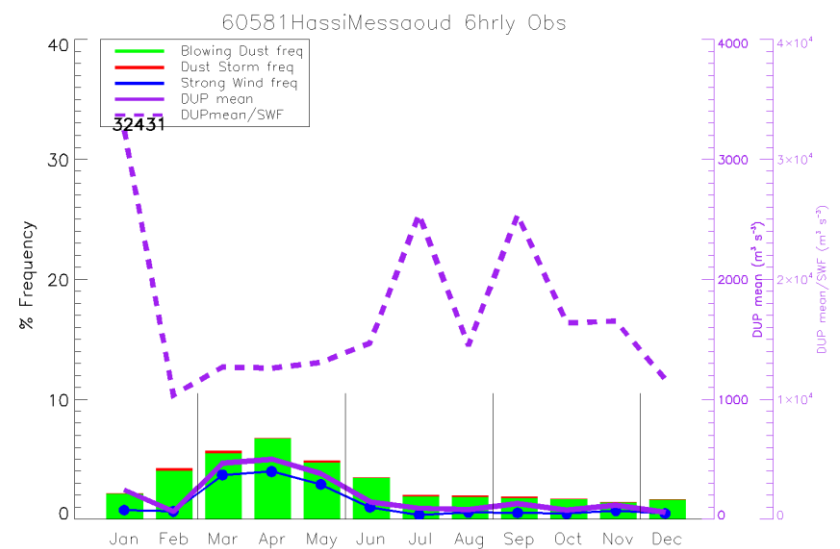
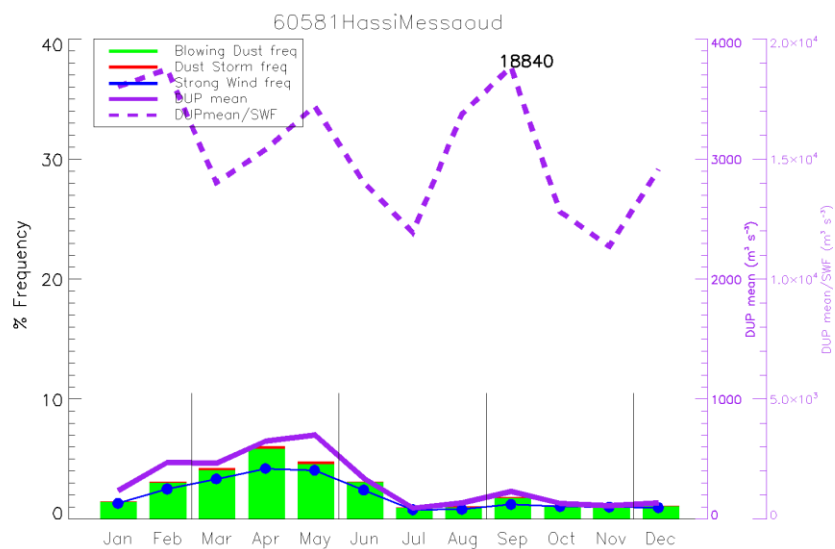
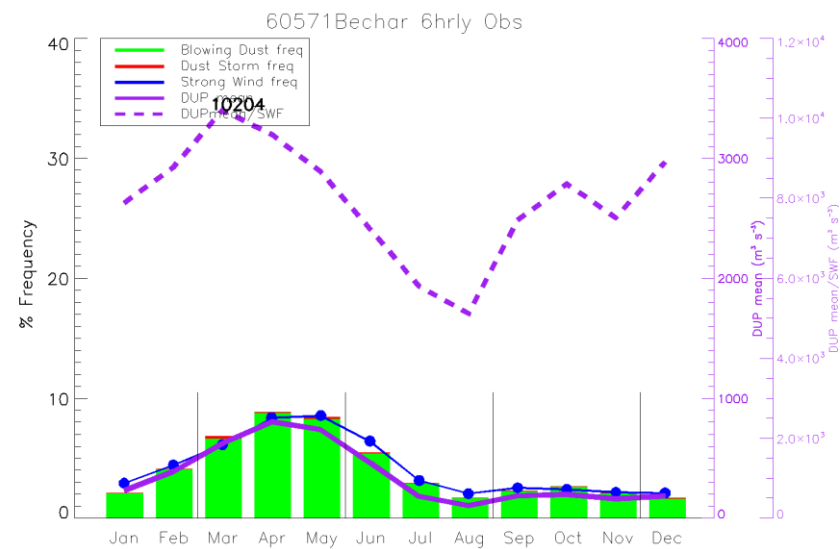
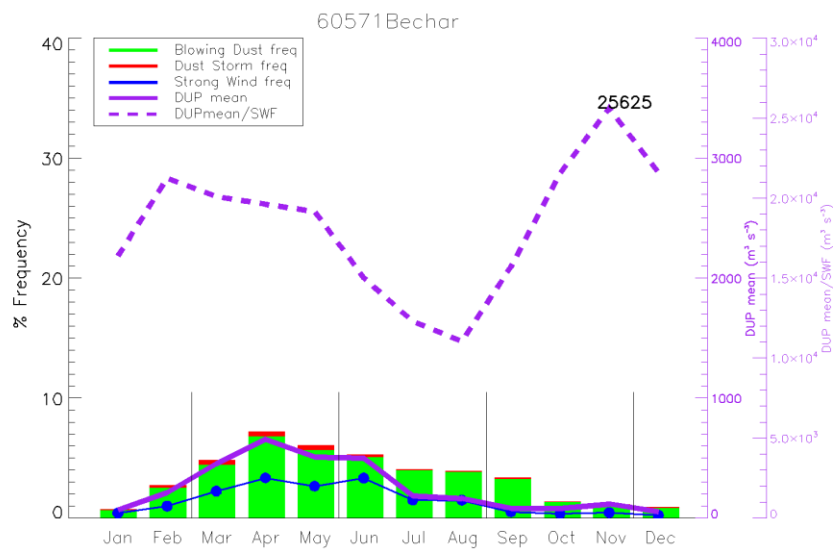


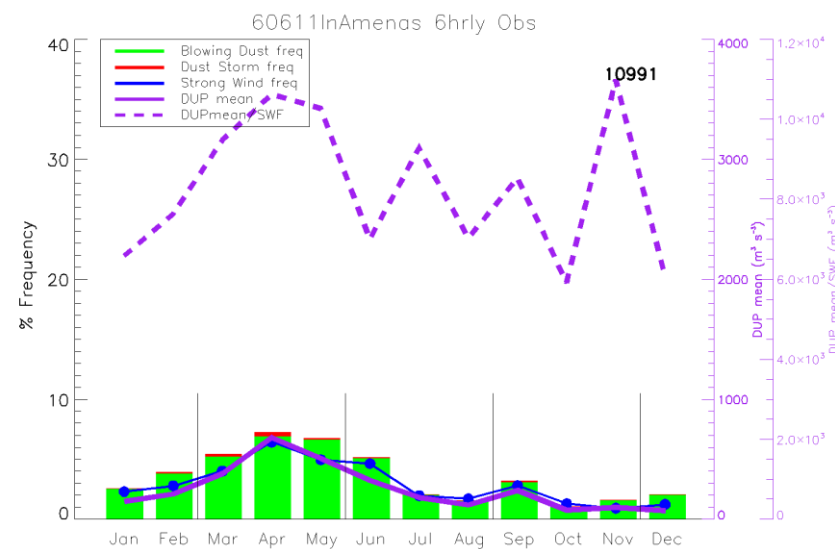
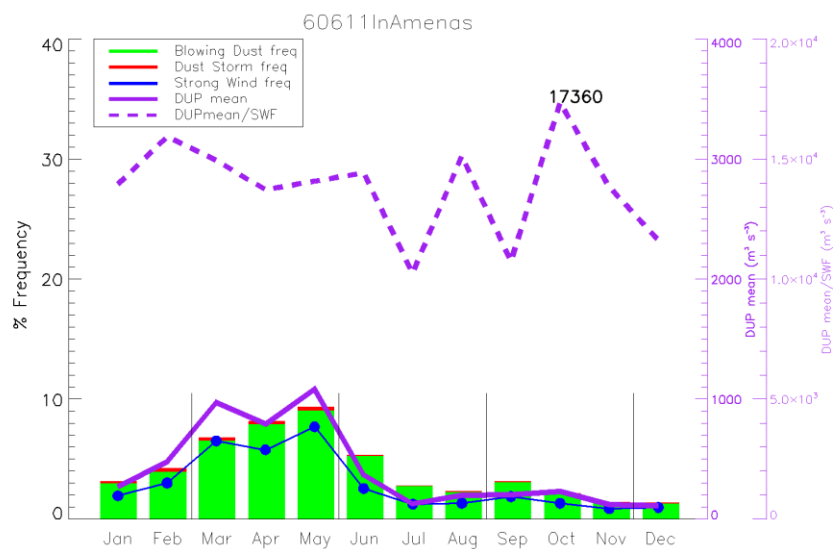
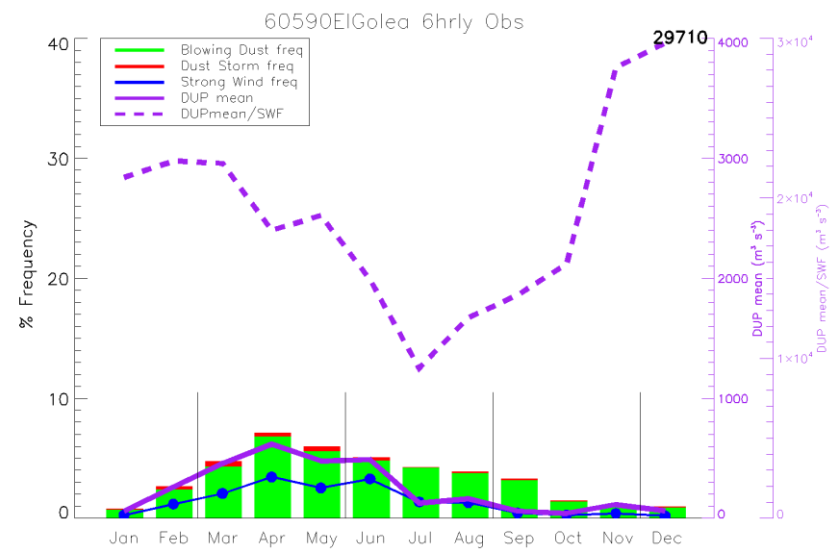
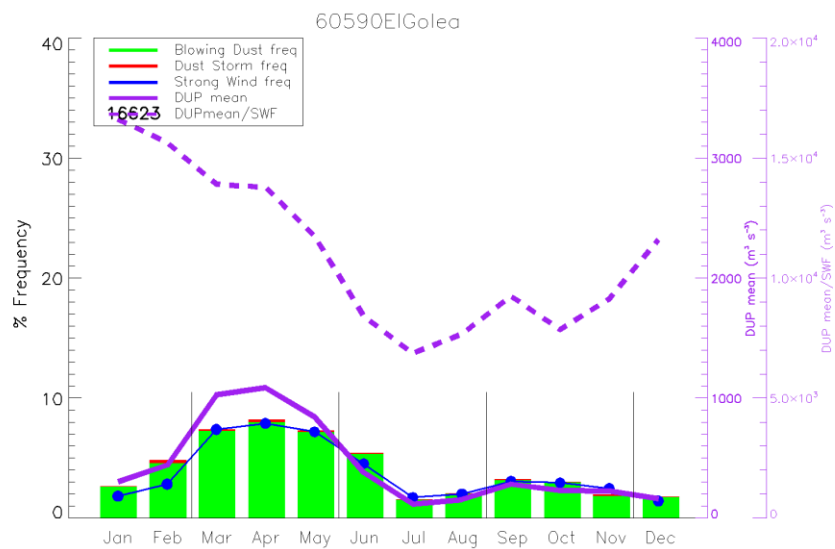
Figure S1. Bar plots of the number of observations at each SYNOP hour, for the periods 1985-1990 (purple), 1990-1995 (red), 1995-2000 (blue), 2000-2005 (green), 2005-2010 (black) for each of the 70 stations.

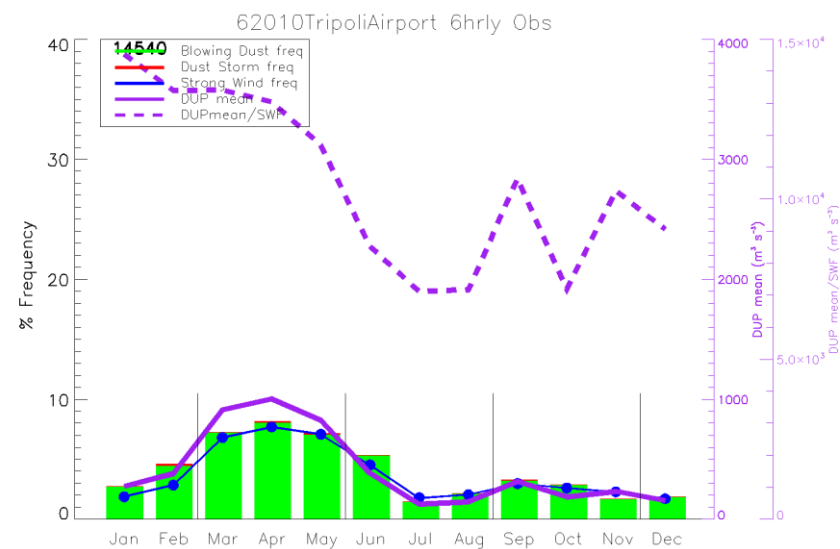
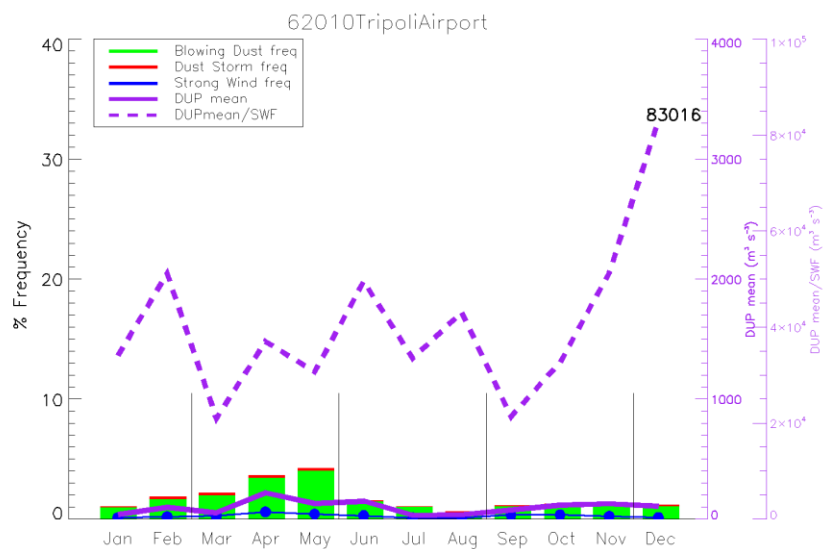
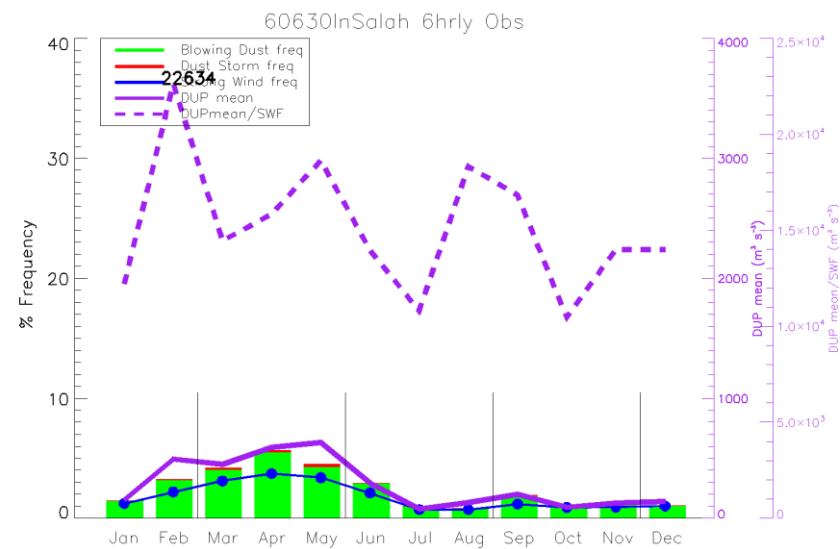
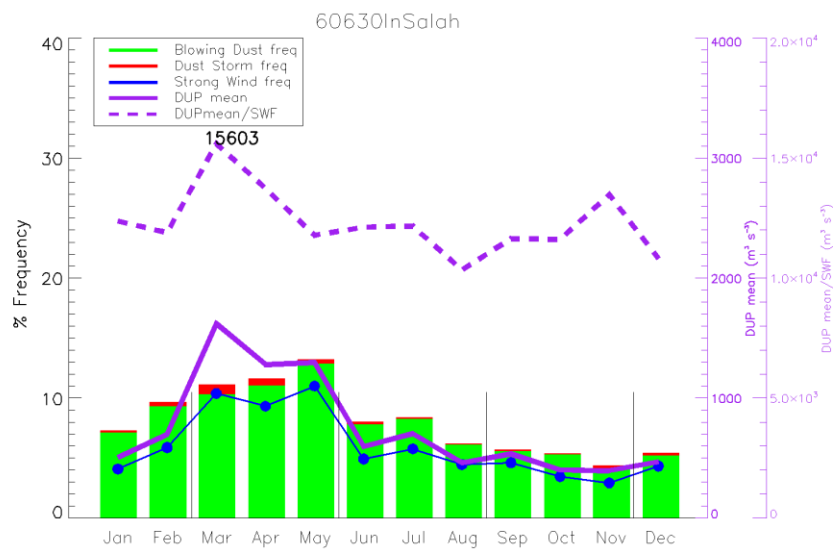


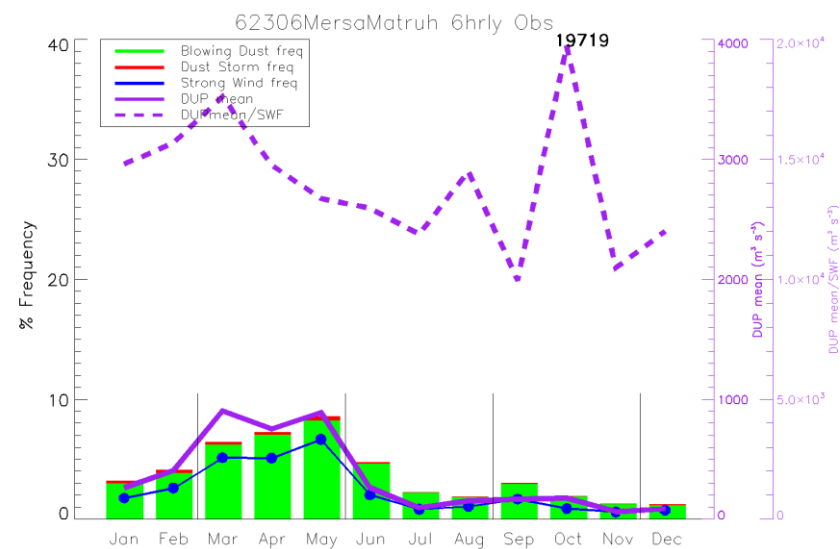
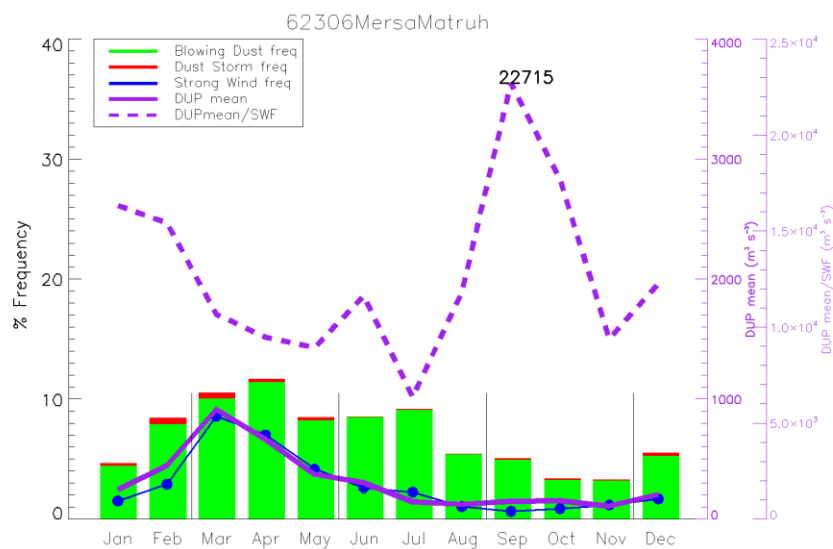
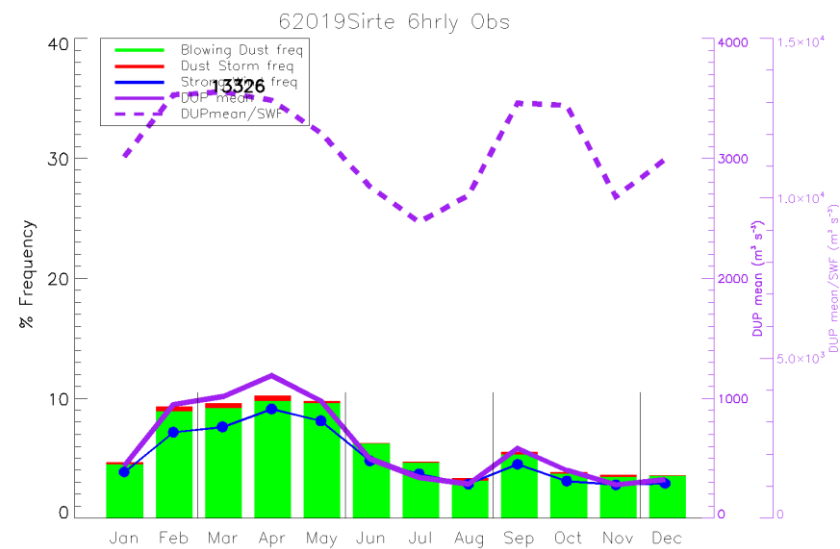
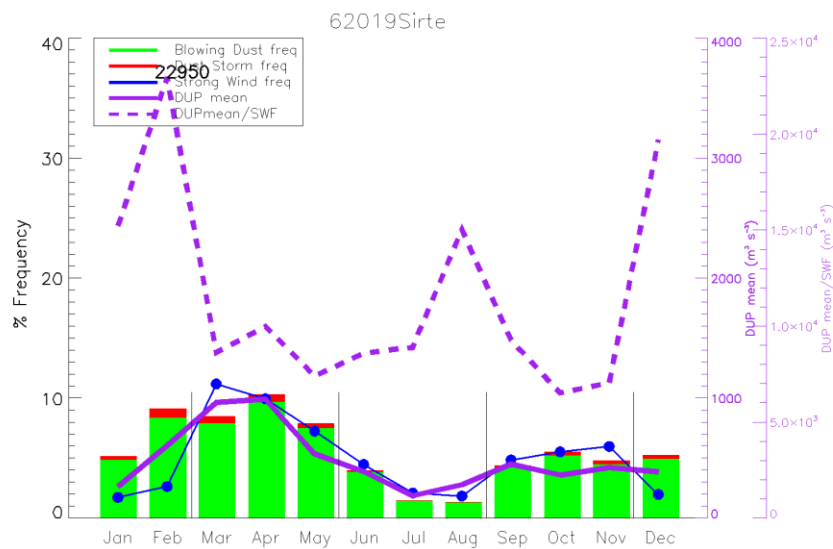


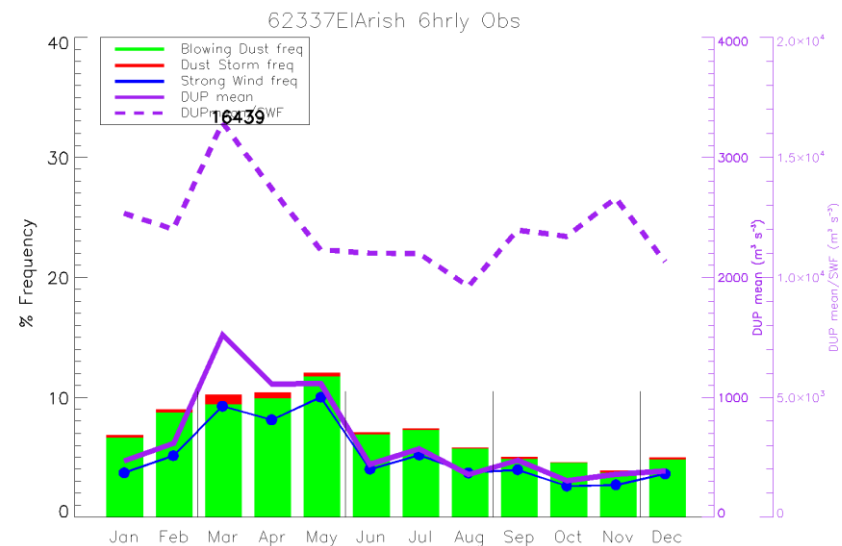
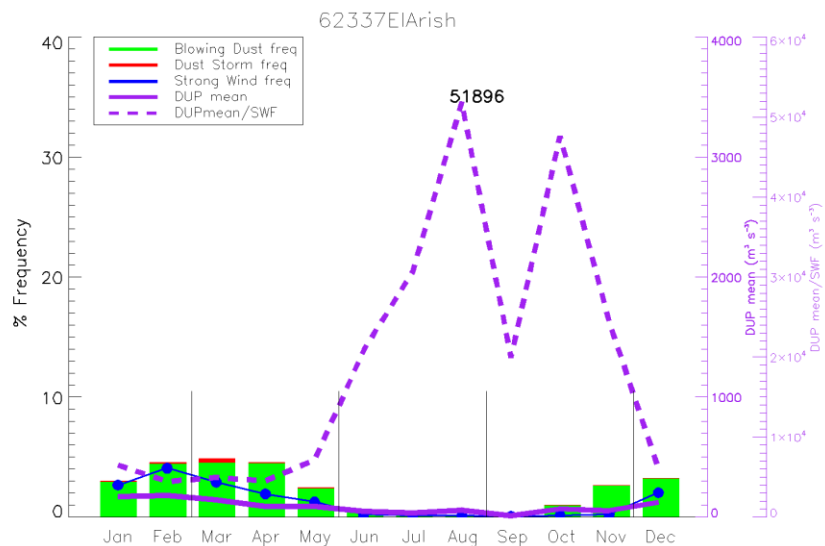
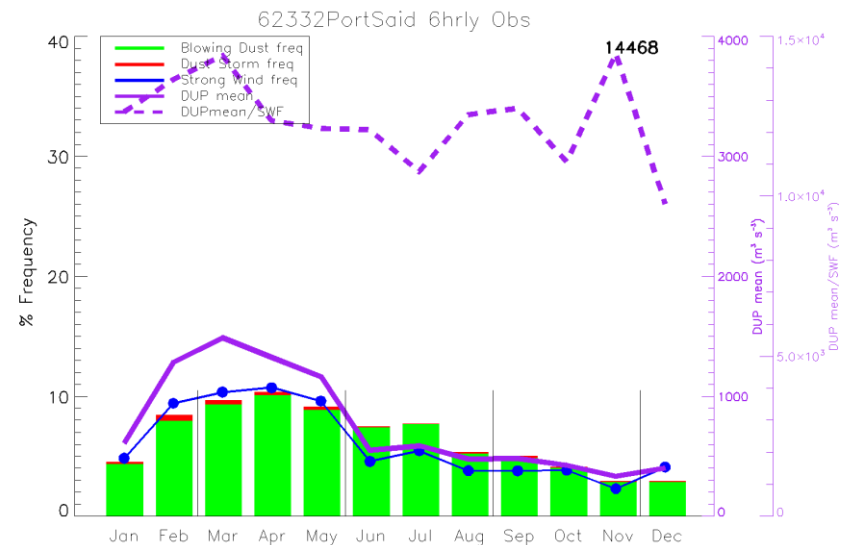
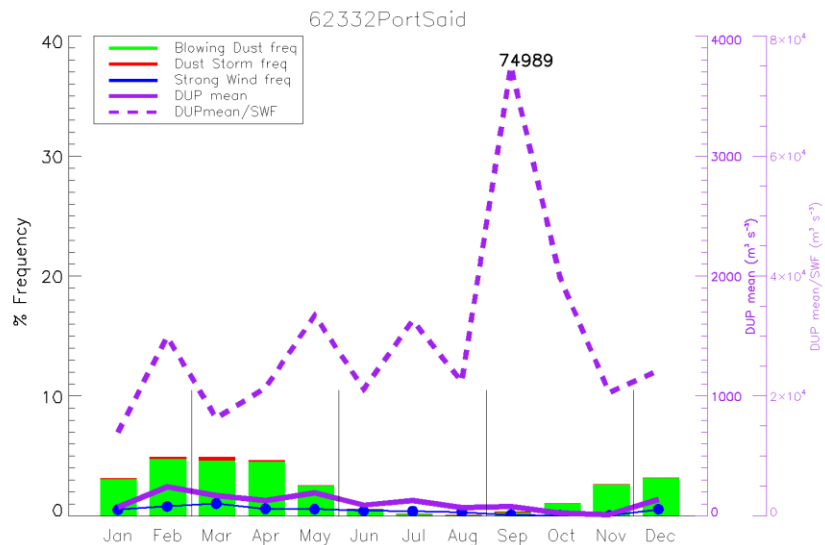


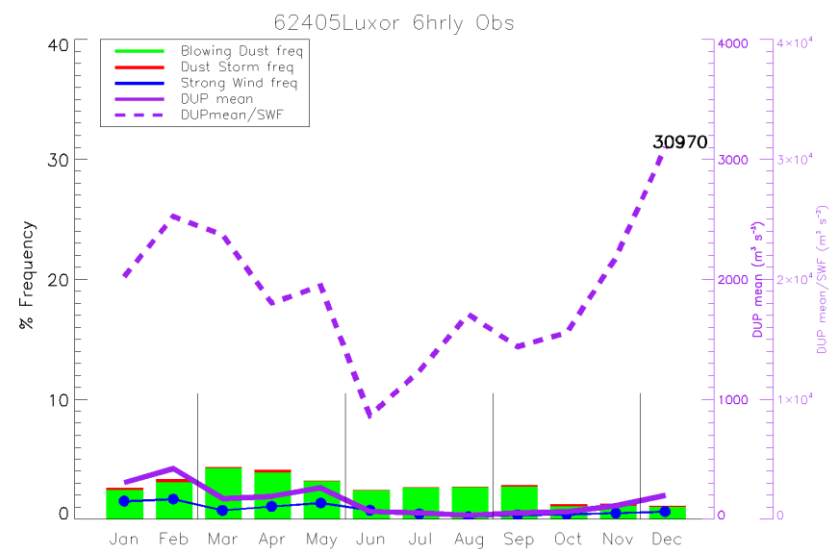
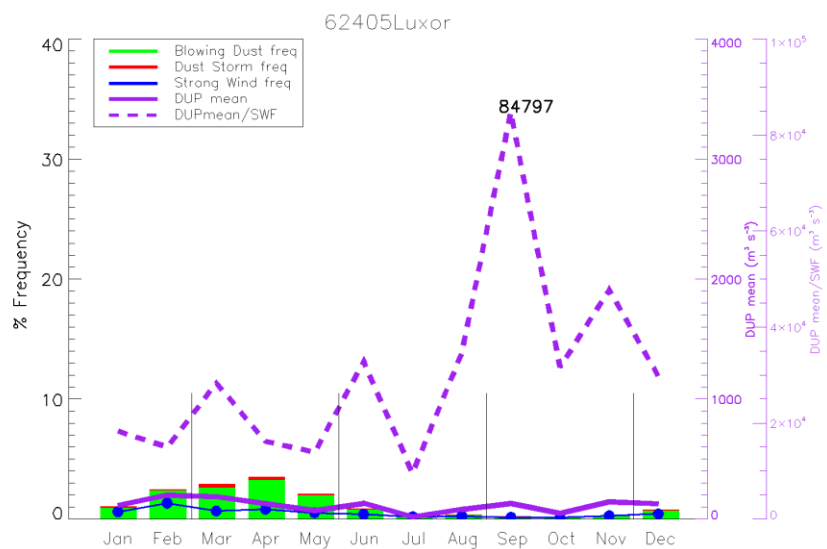
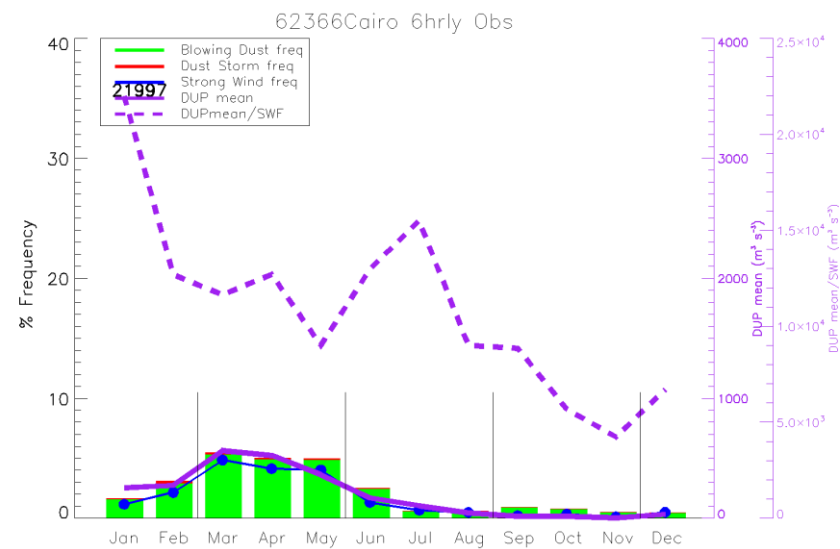
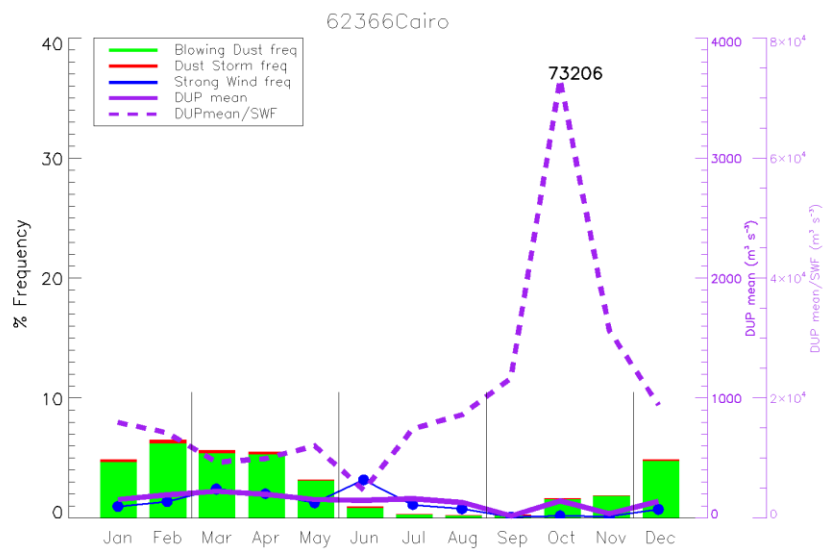












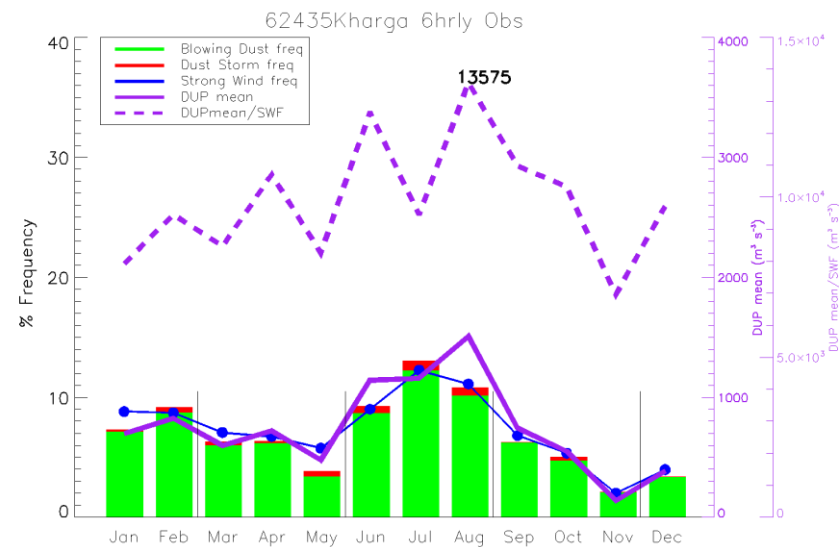
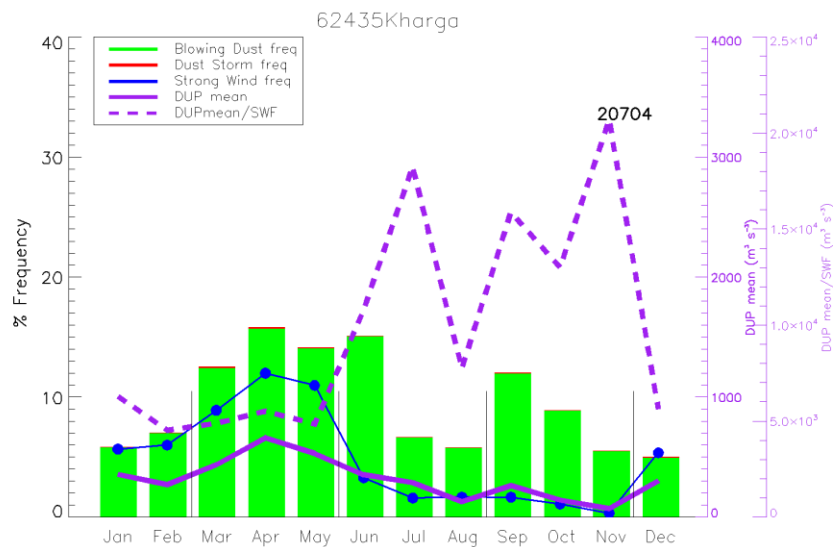
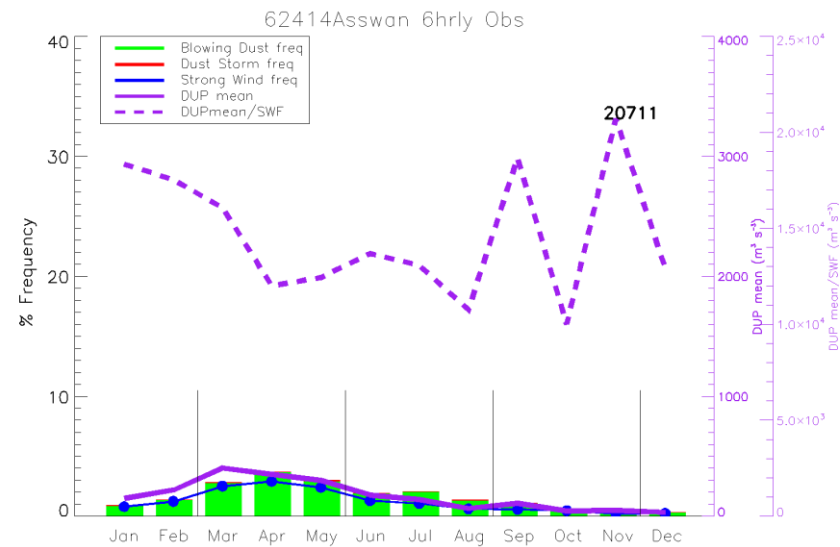
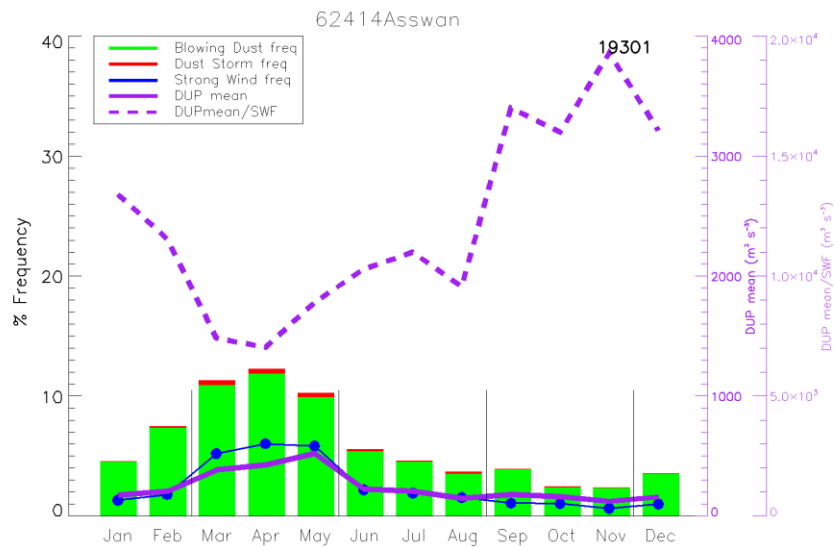
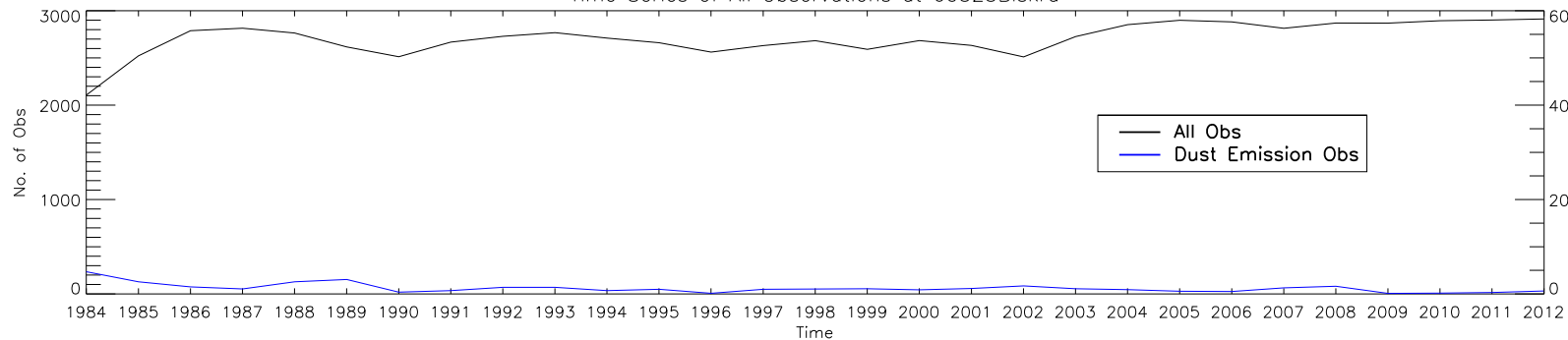


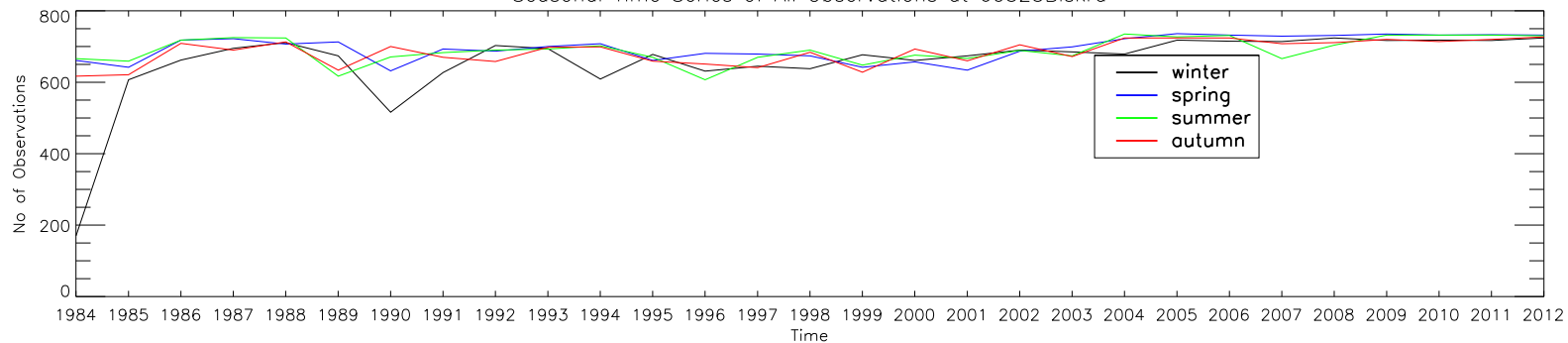
Figure S2. Mean seasonal cycle comparison using six hourly (right plots) and three hourly (left plots) observations for 18 stations which have stable three hourly reporting. Monthly frequency of FDE, split into BDF (green bars) and DSF (red bars), as well as SWF (blue line), DUP mean (solid purple) and DUP Intensity (DUP mean/SWF, dashed purple, maximum values given), all computed using the seasonally varying T50 (for definitions of parameters, see Sect. 2.2.1, main paper). Thin vertical black lines indicate seasonal boundaries where thresholds change. Note the different vertical axes for DUP intensity.



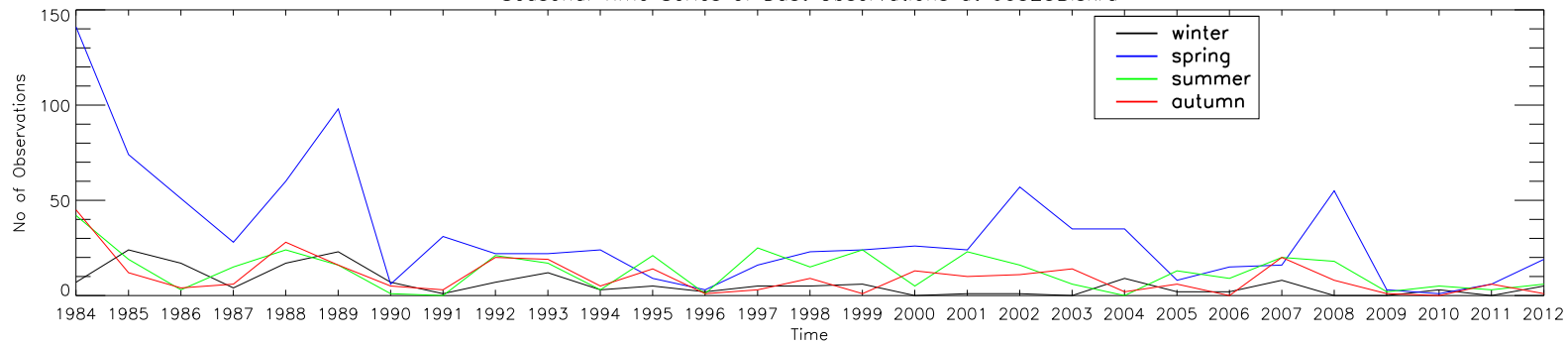
Time Series of All Observations at 60525Biskra

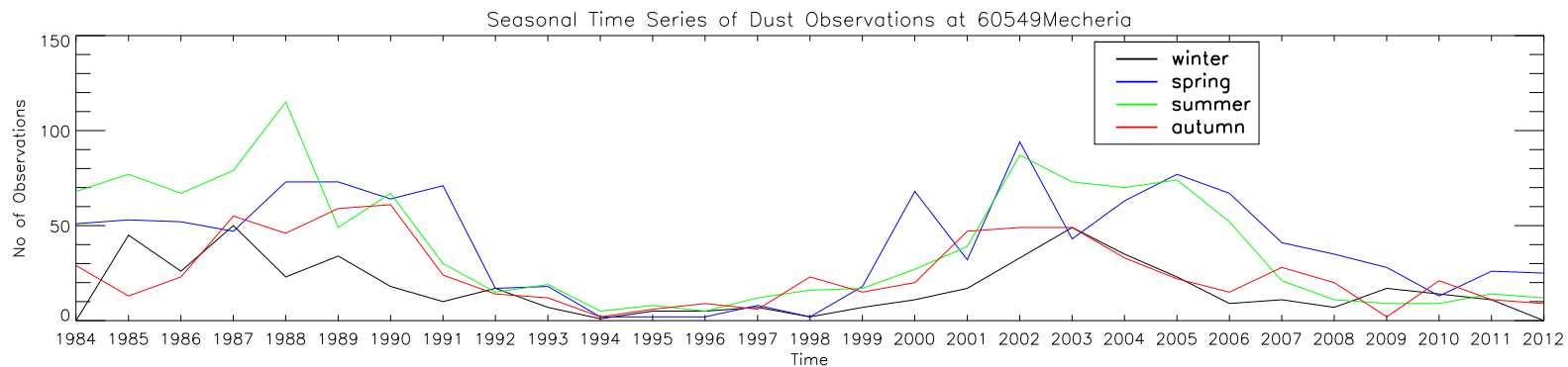
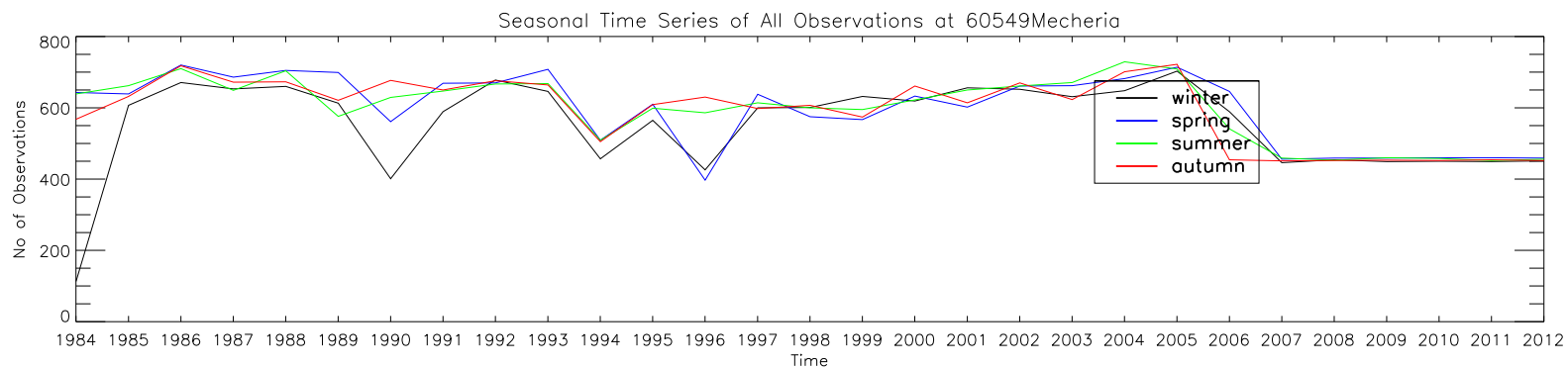
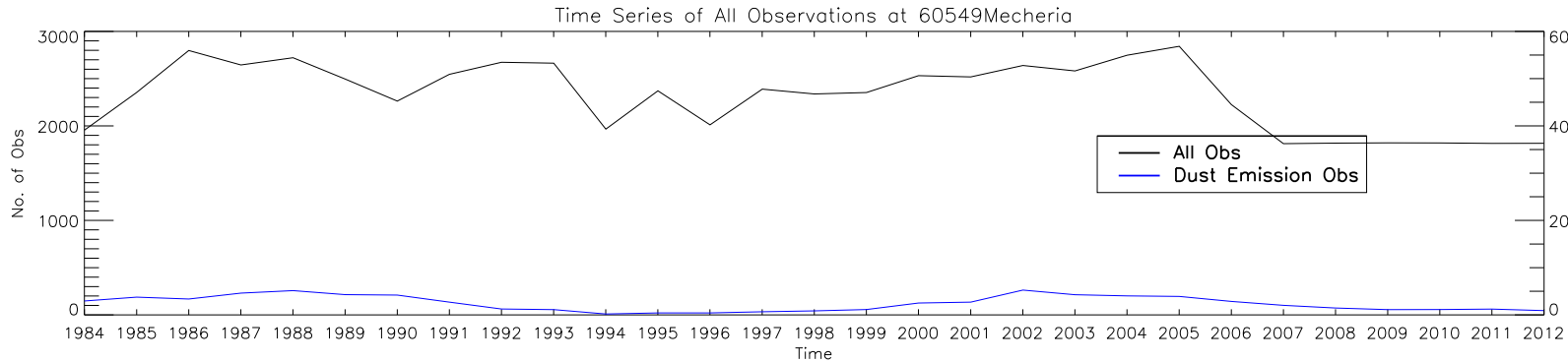


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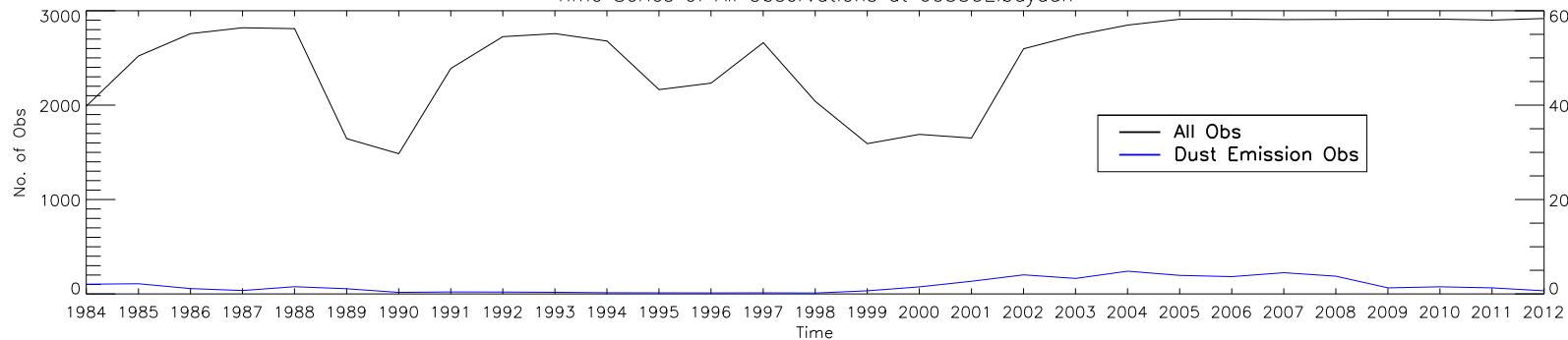


Seasonal Time Series of Dust Observations at 60525Biskra

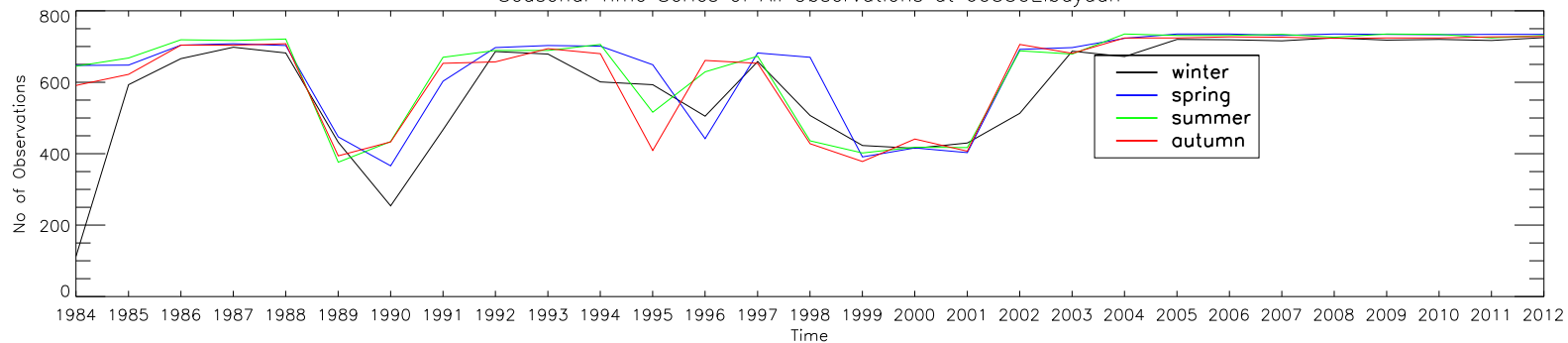




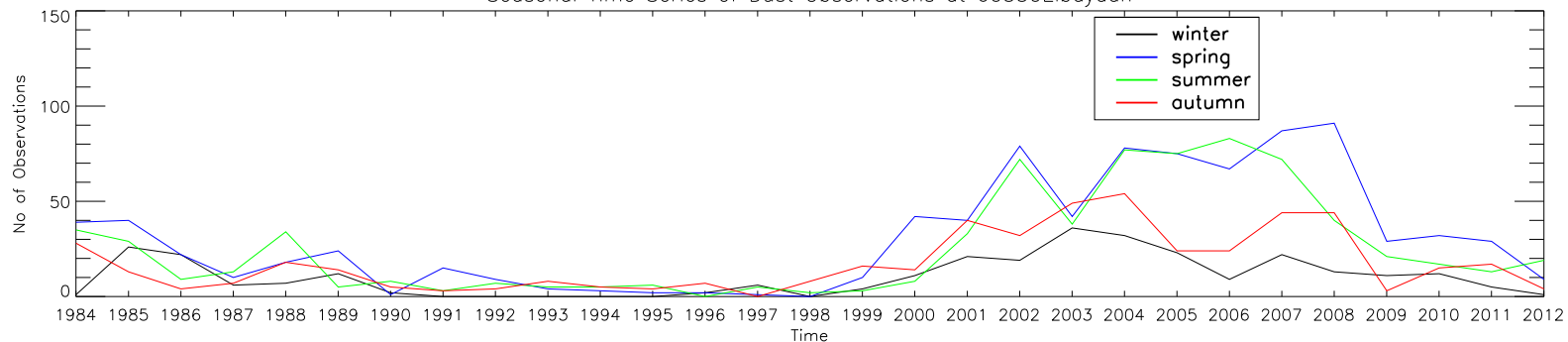
Time Series of All Observations at 60550Elbayadh



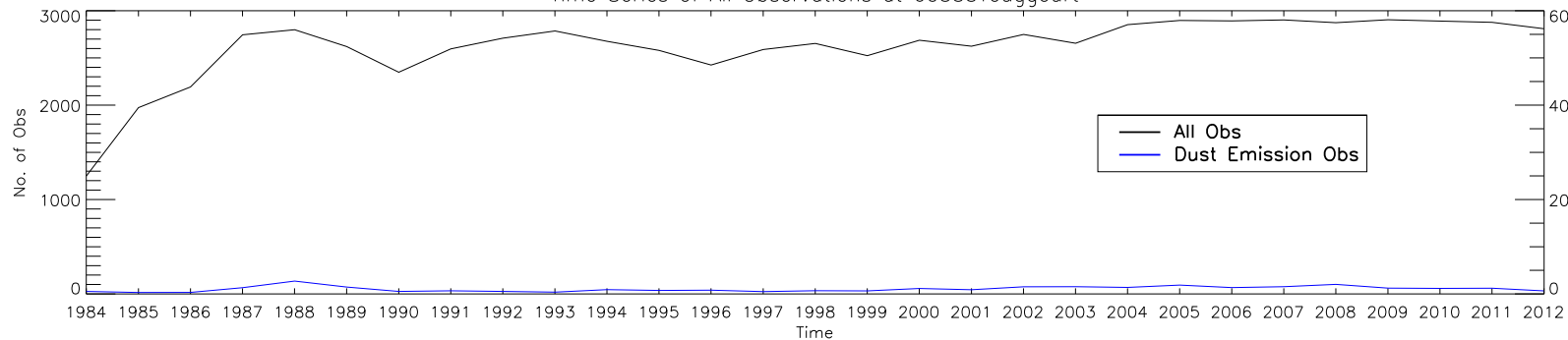
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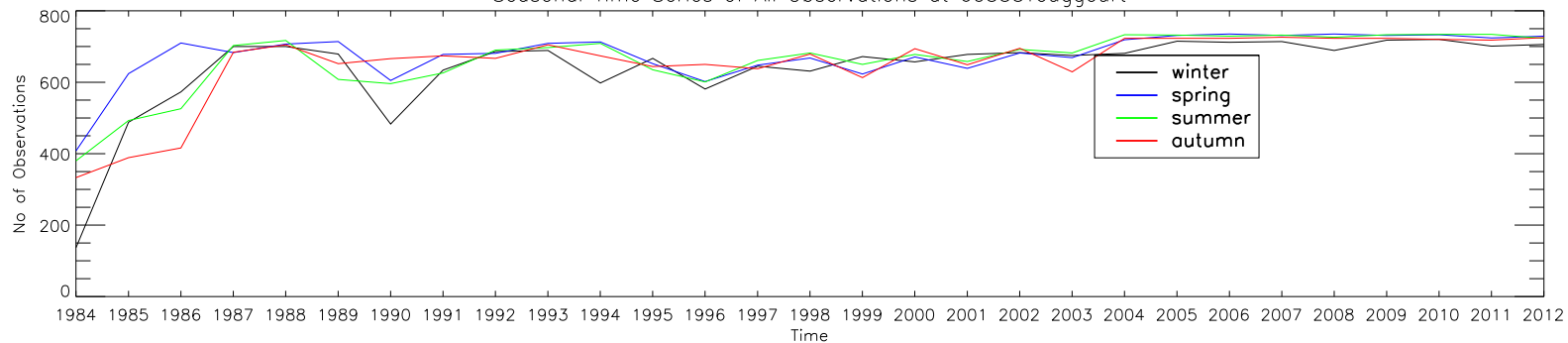
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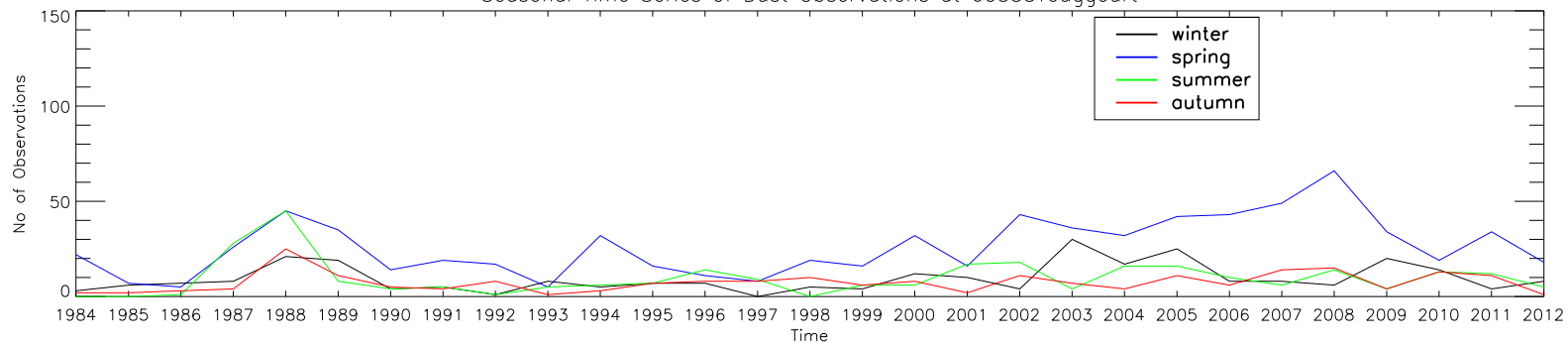
Time Series of All Observations at 60555Touggourt



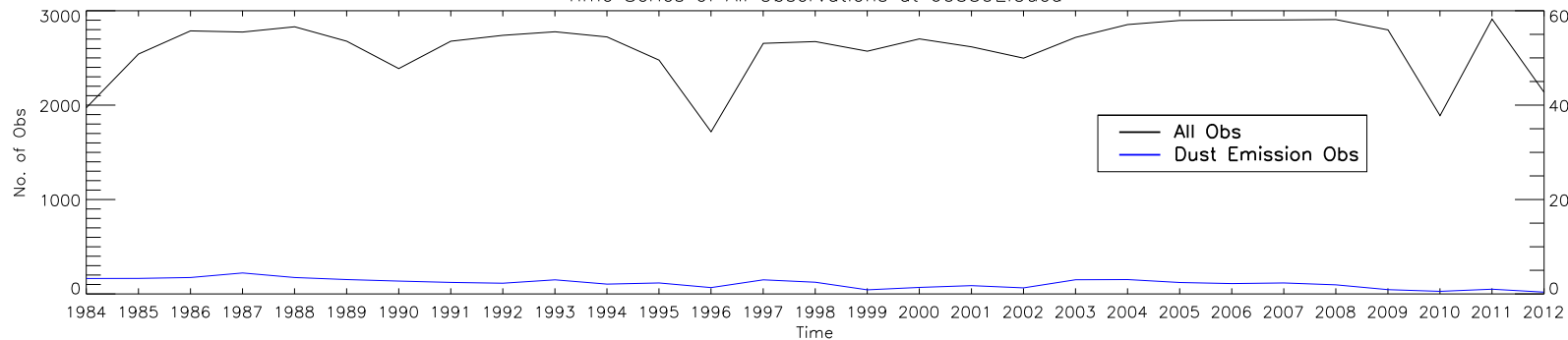
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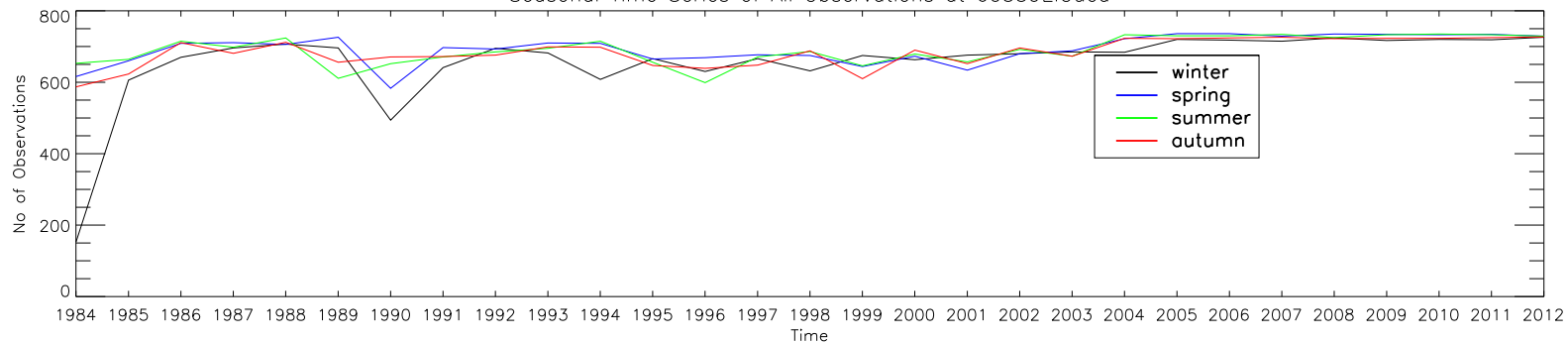
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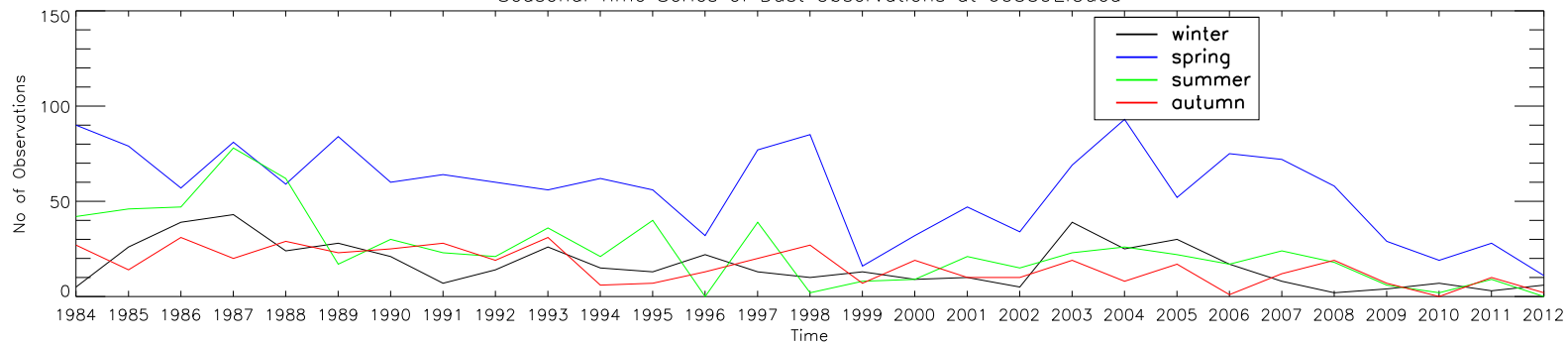
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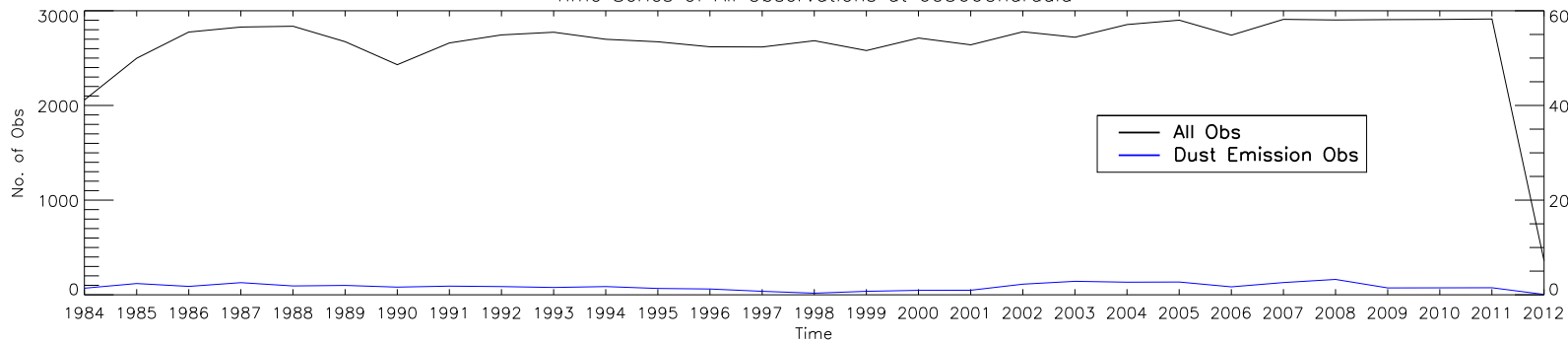
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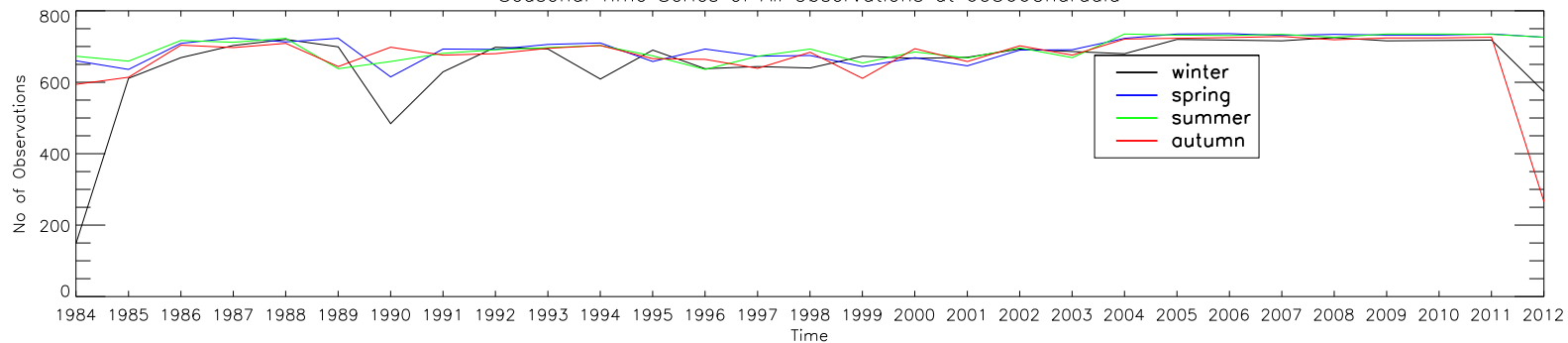
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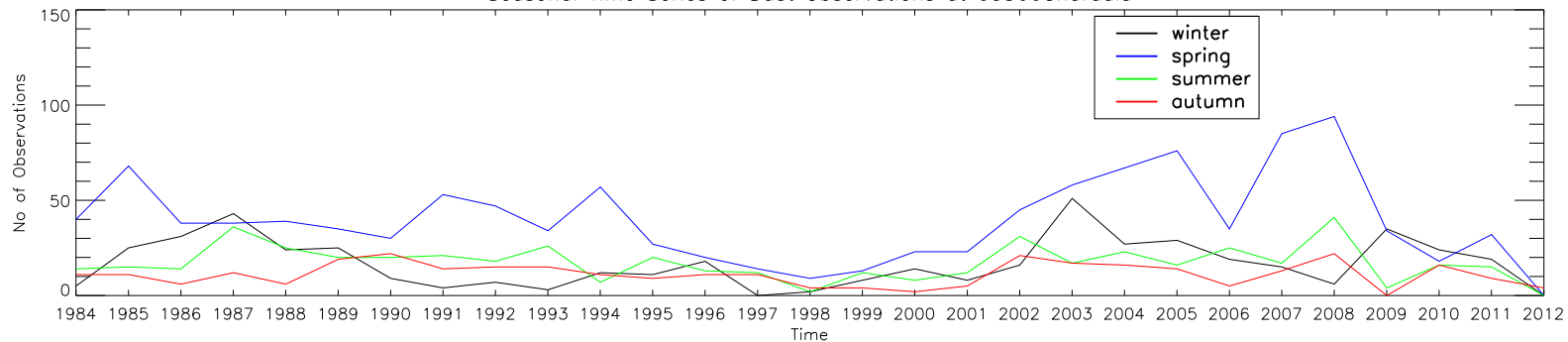
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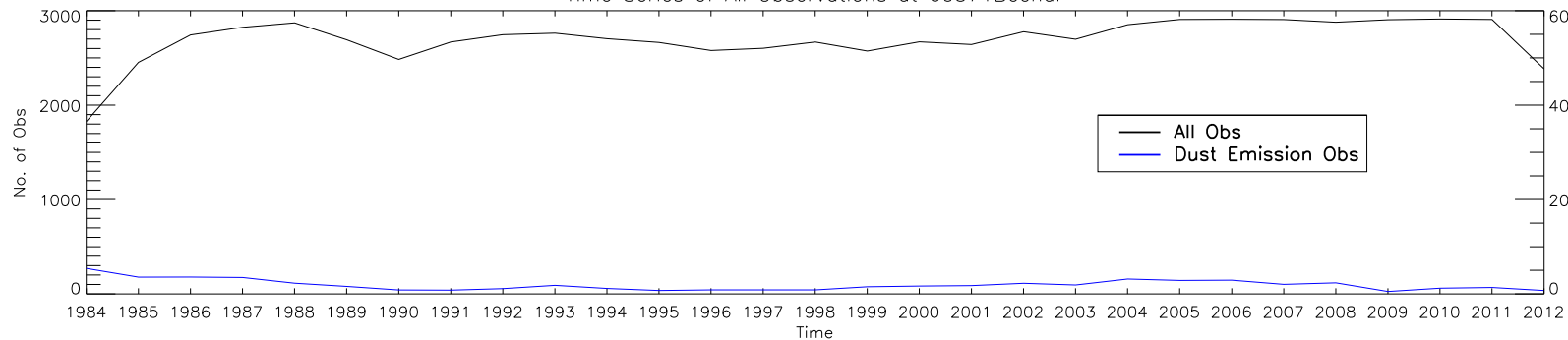
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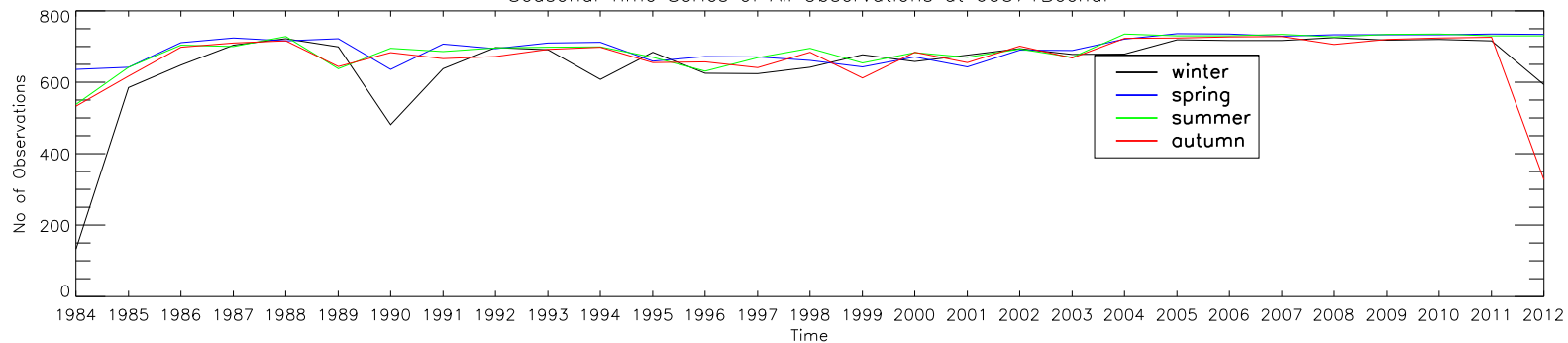
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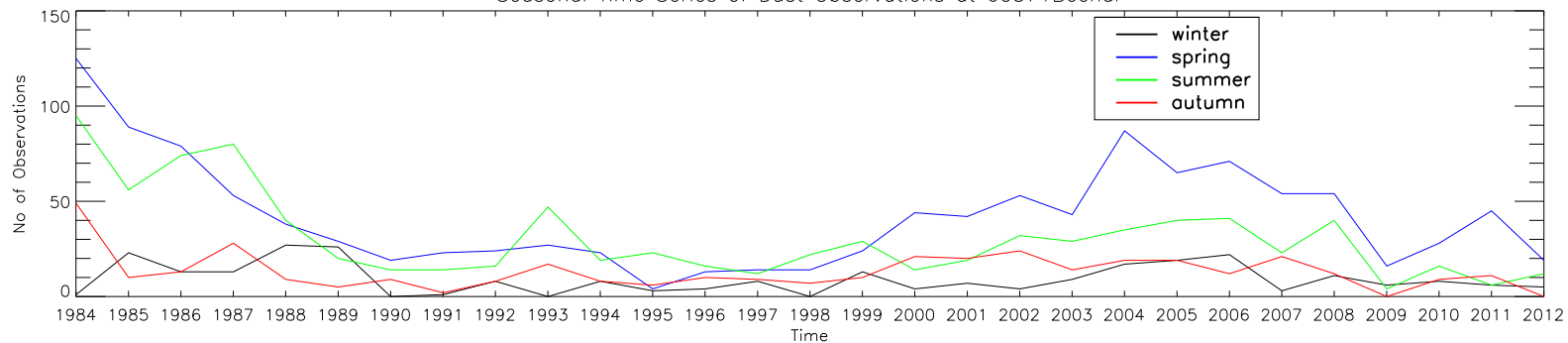
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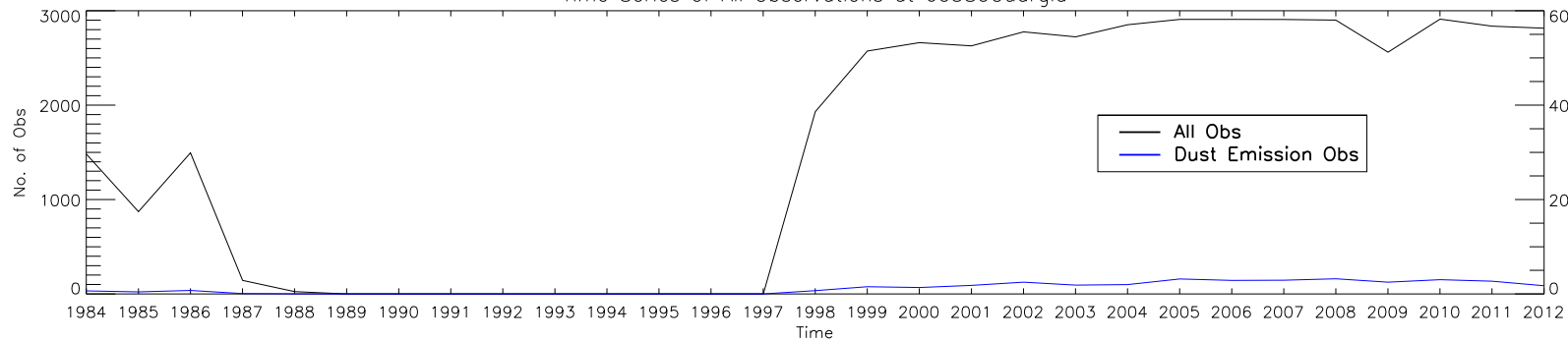
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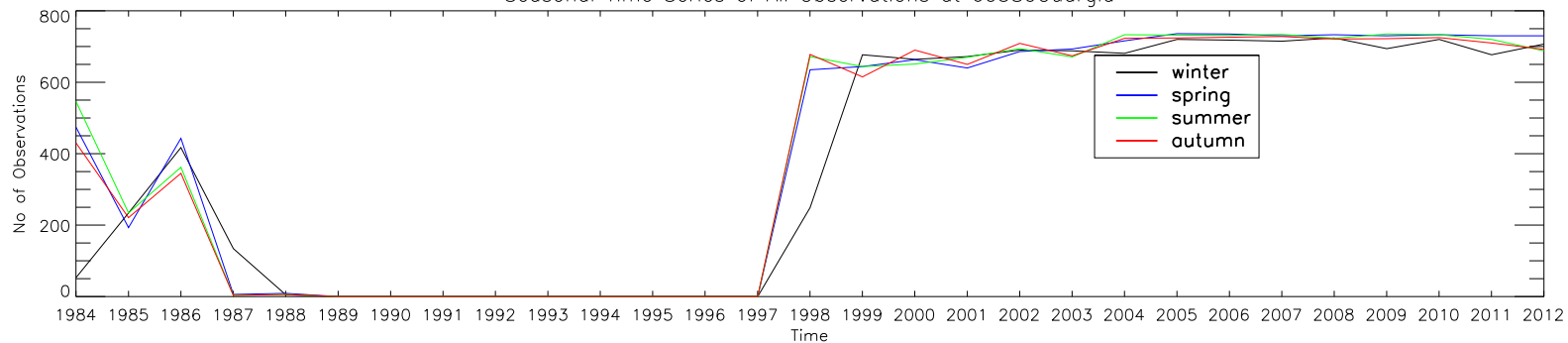
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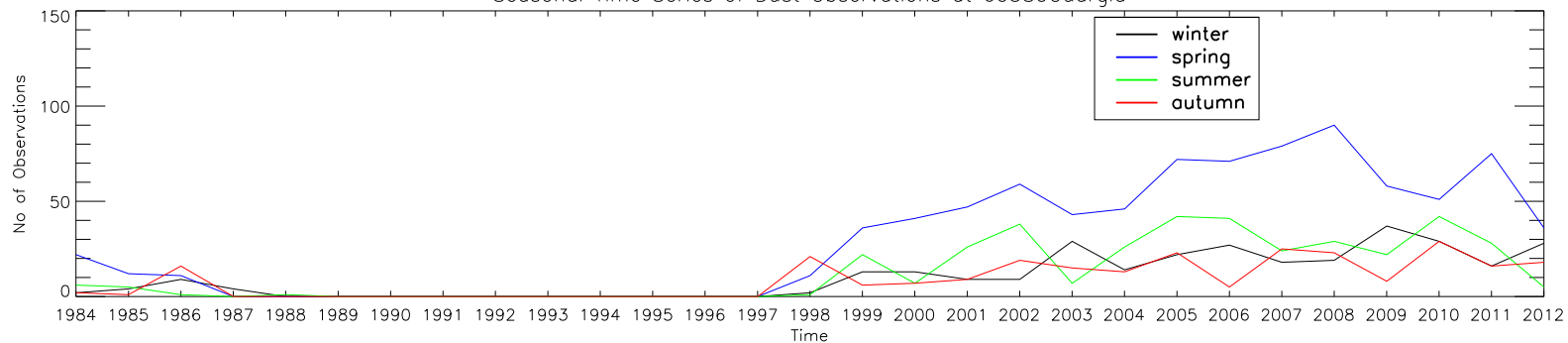
Time Series of All Observations at 60580Uargla



Seasonal Time Series of All Observations at 60580Uargla

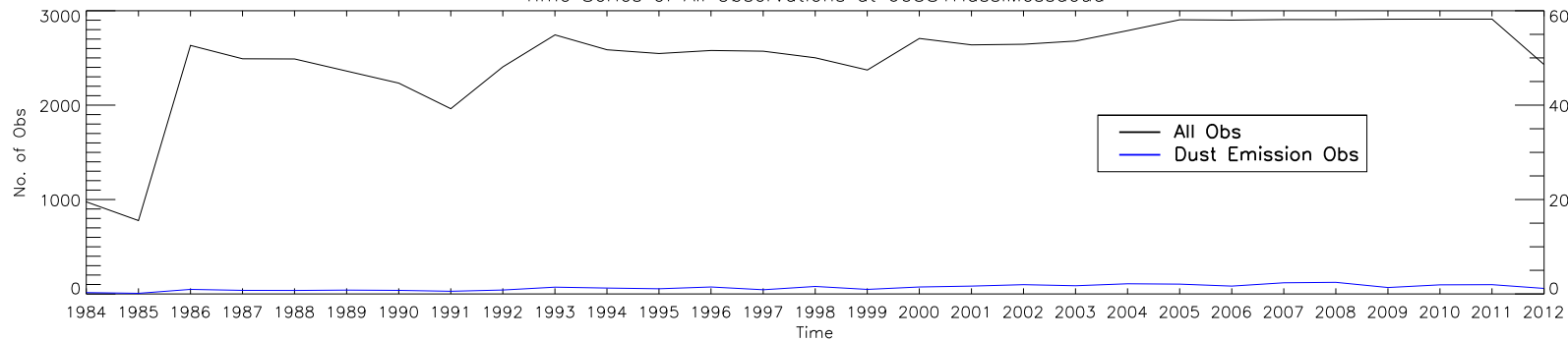


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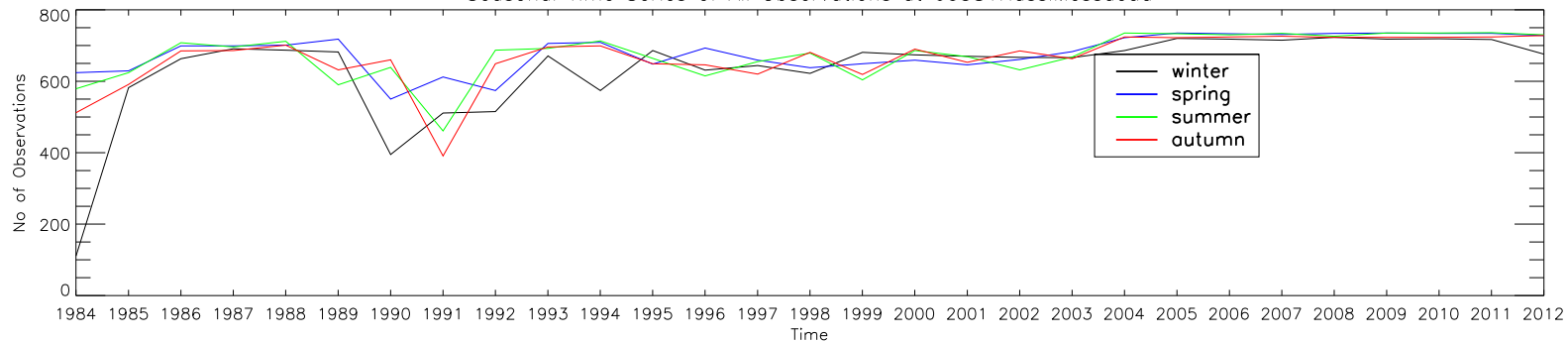




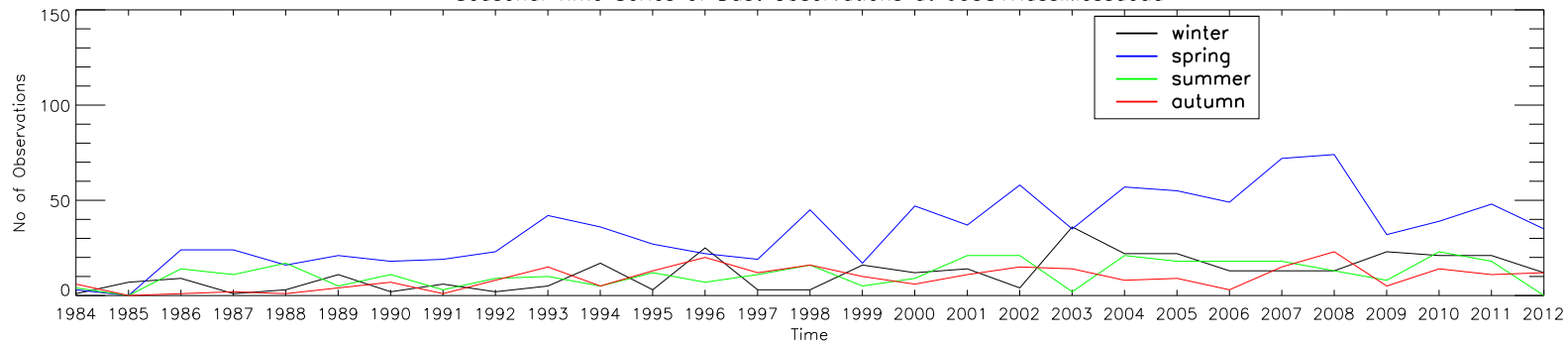
Time Series of All Observations at 60581HassiMessaoud



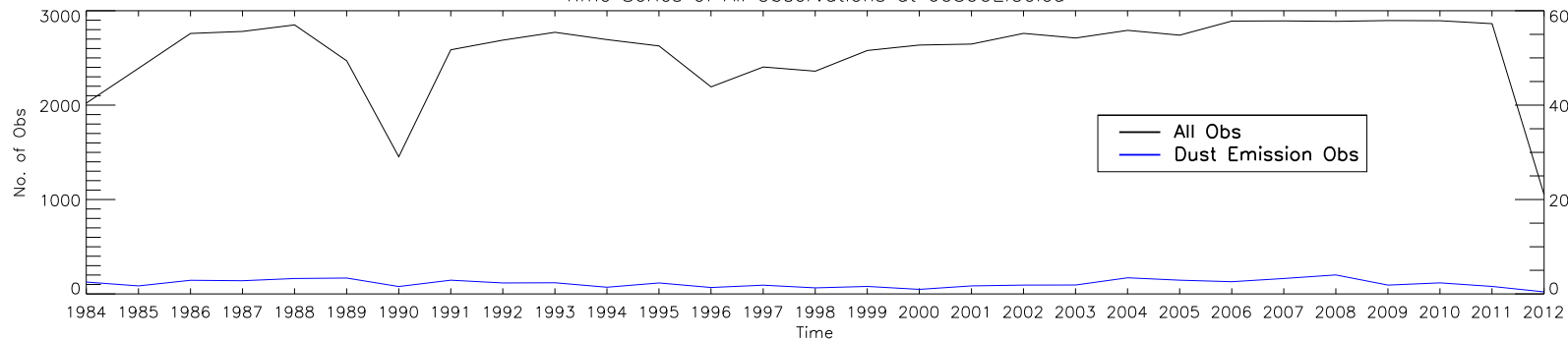
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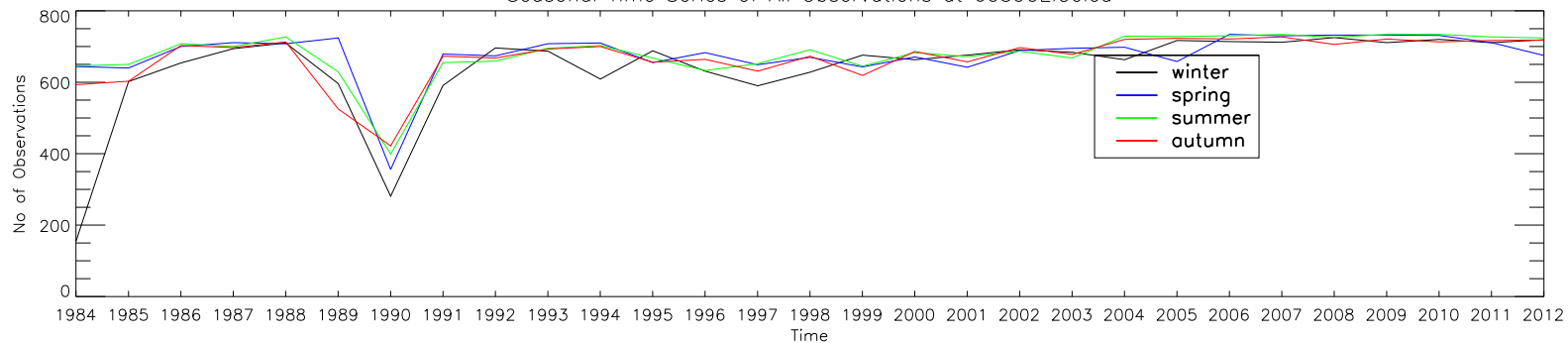
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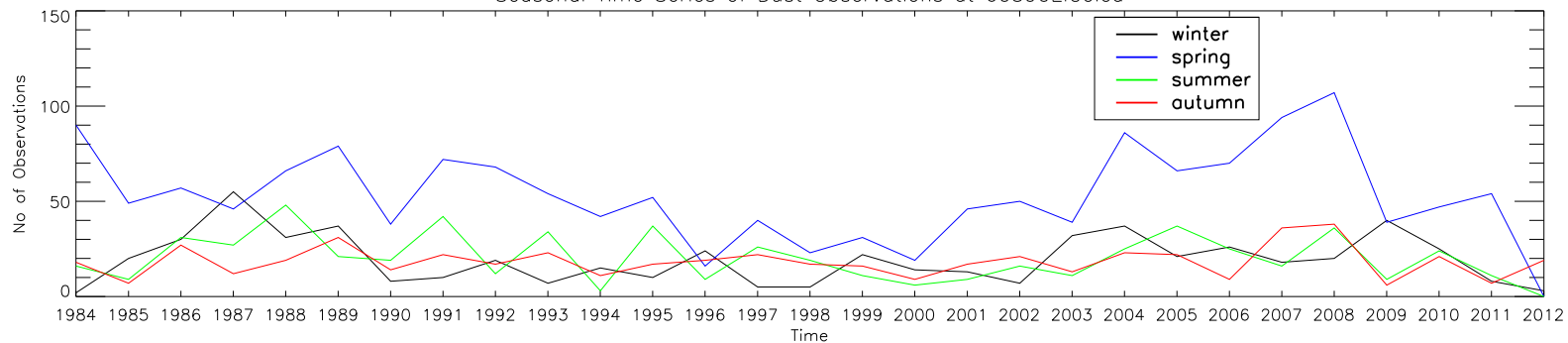
Time Series of All Observations at 60590EIGolea



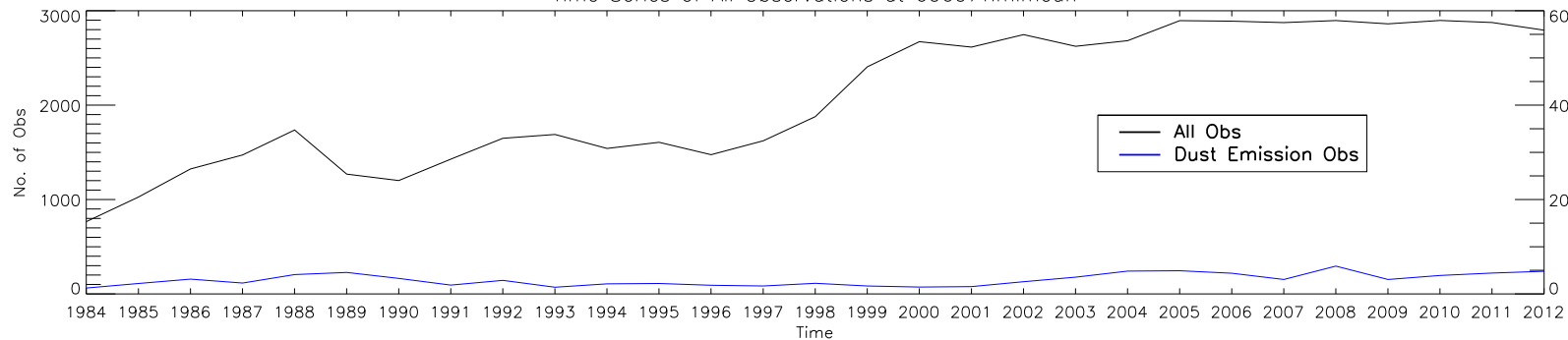
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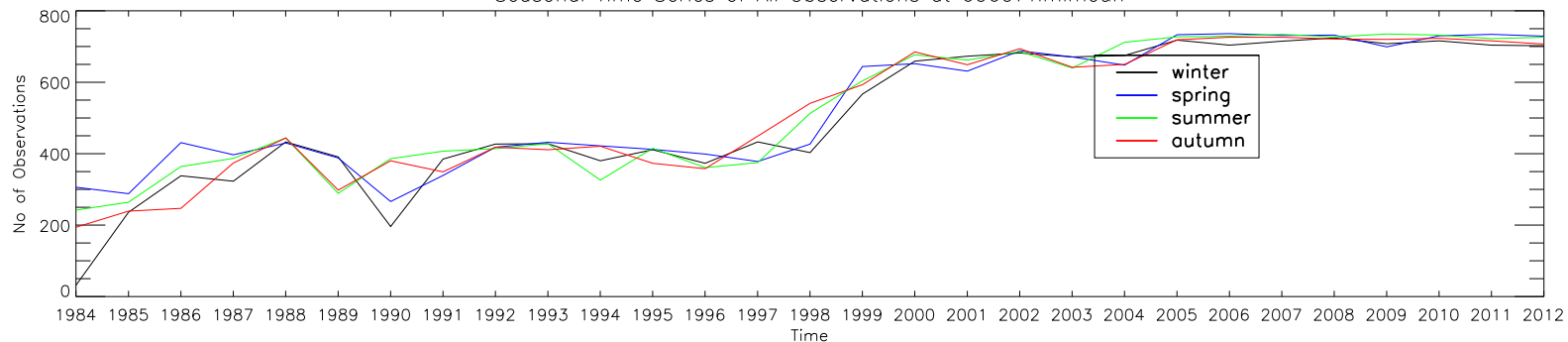
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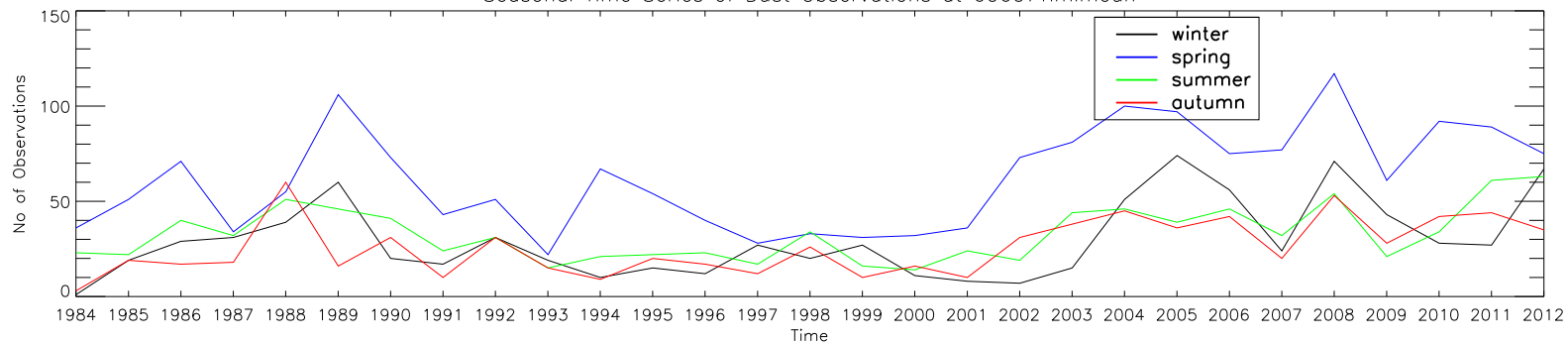
Time Series of All Observations at 60607Timimoun



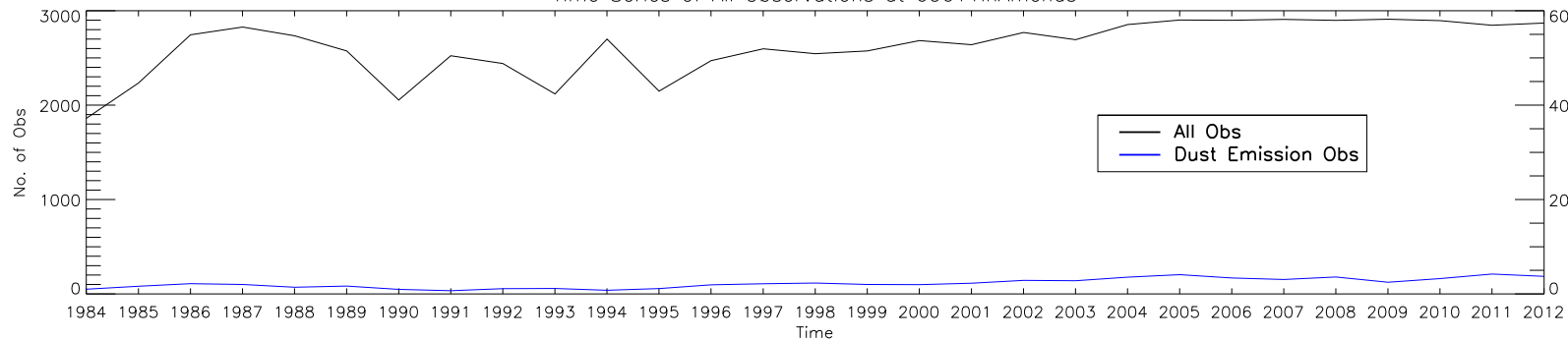
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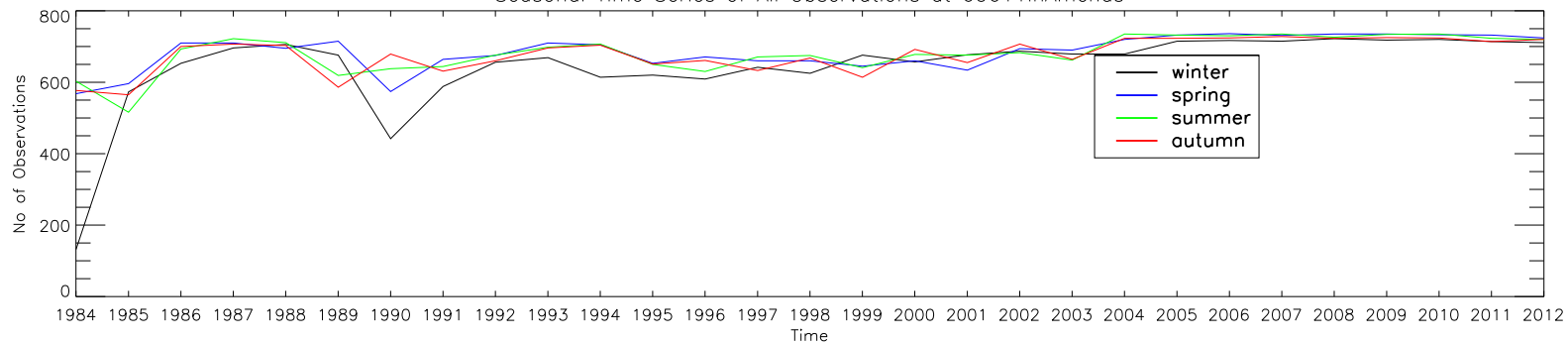
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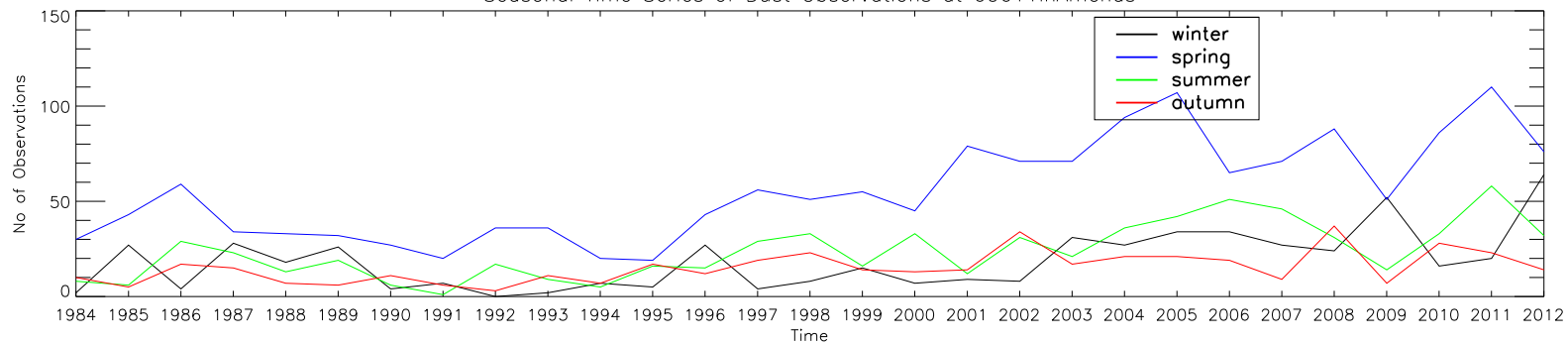
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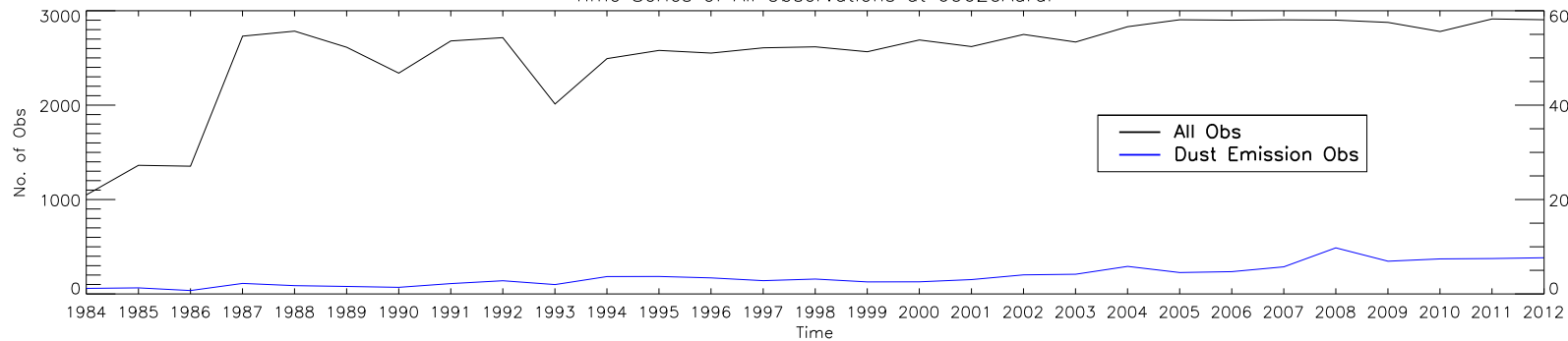
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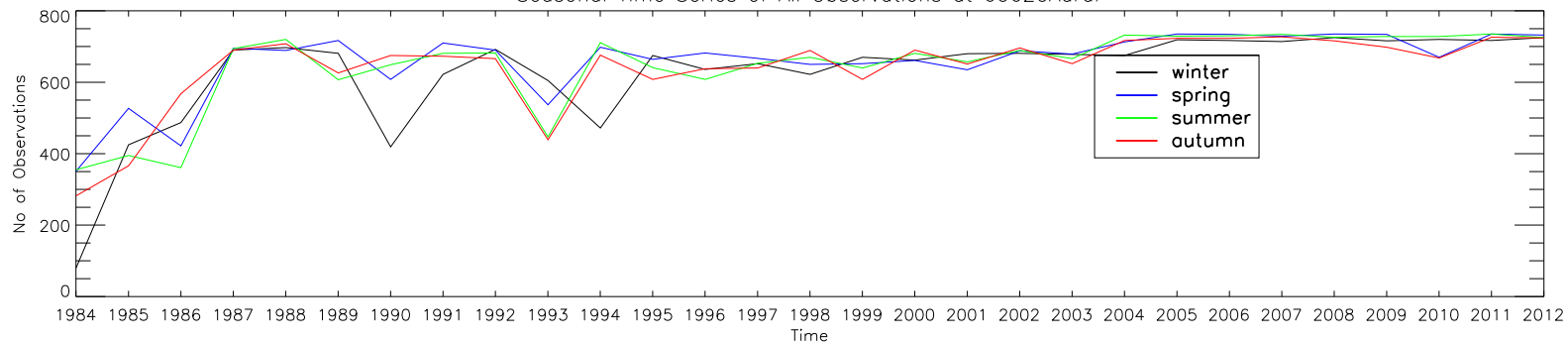
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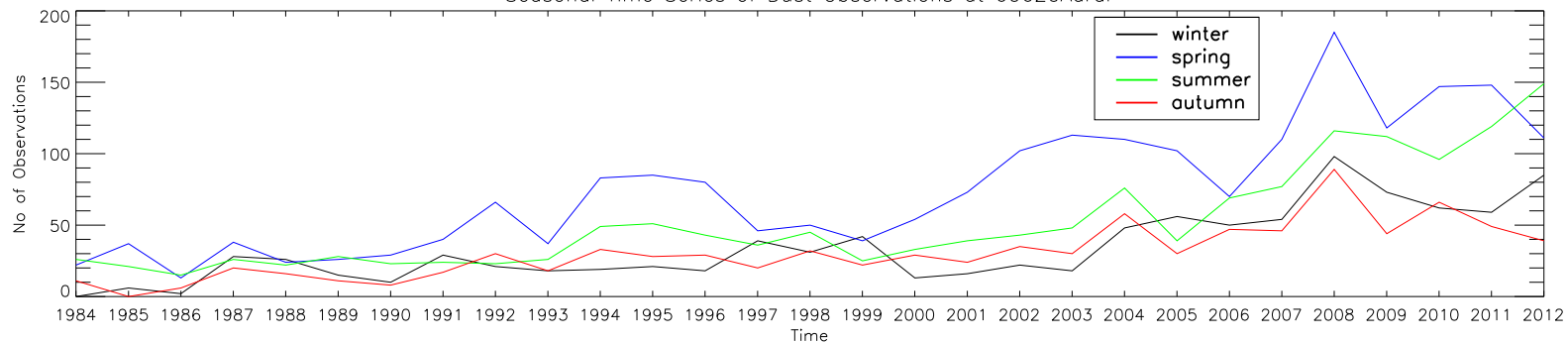
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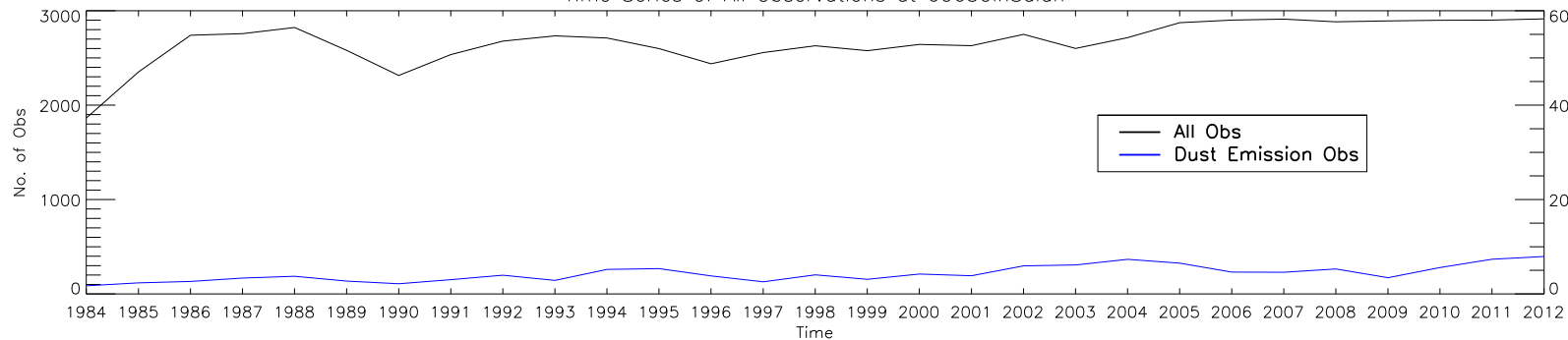
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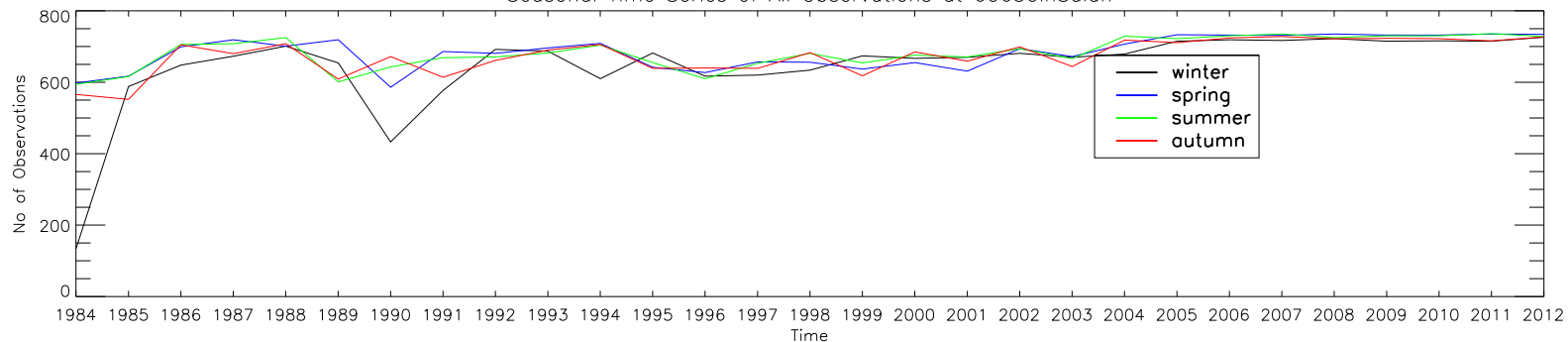
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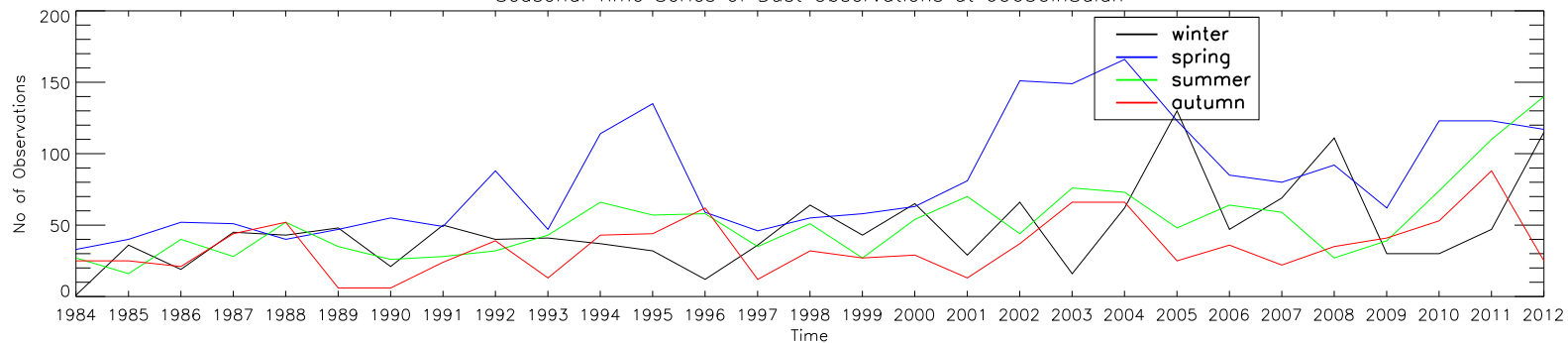
Time Series of All Observations at 60630InSalah



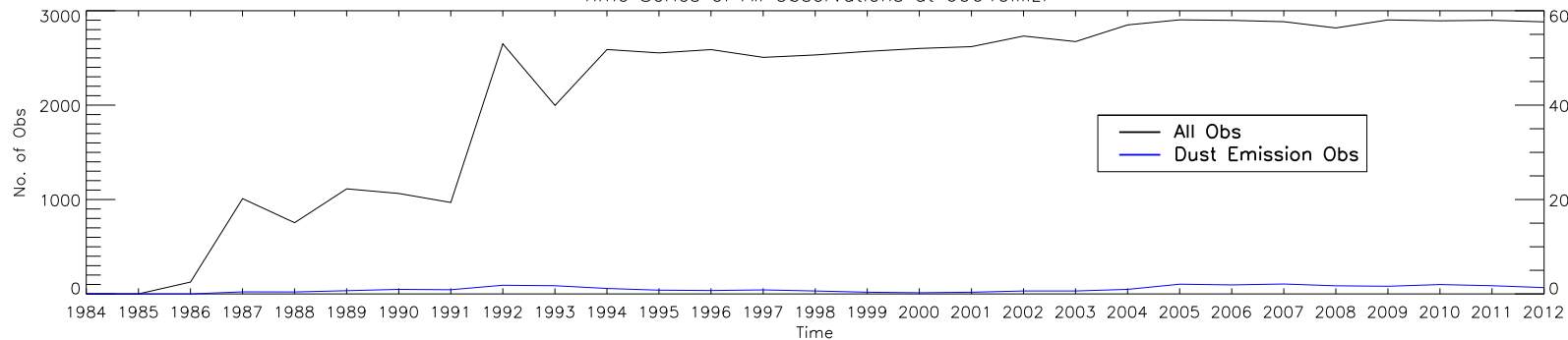
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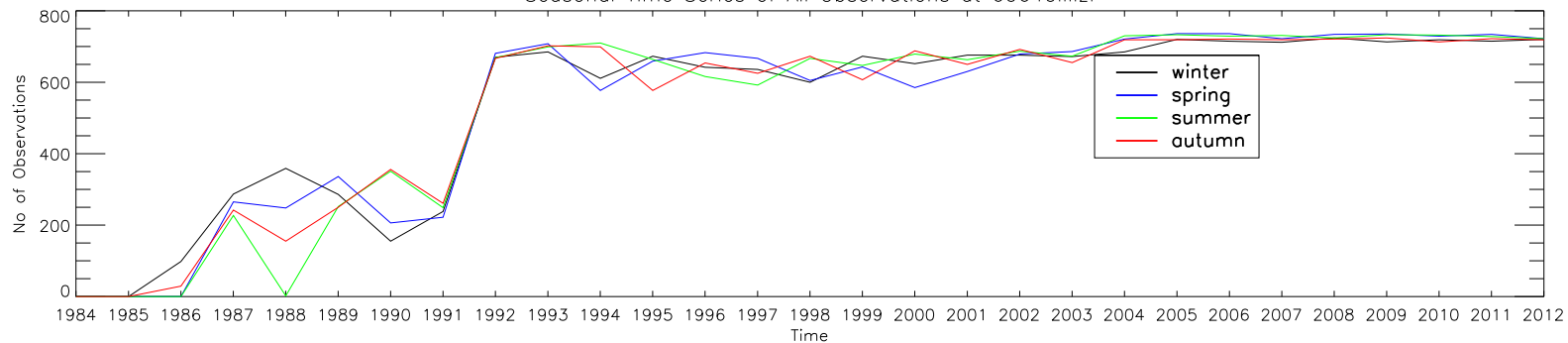
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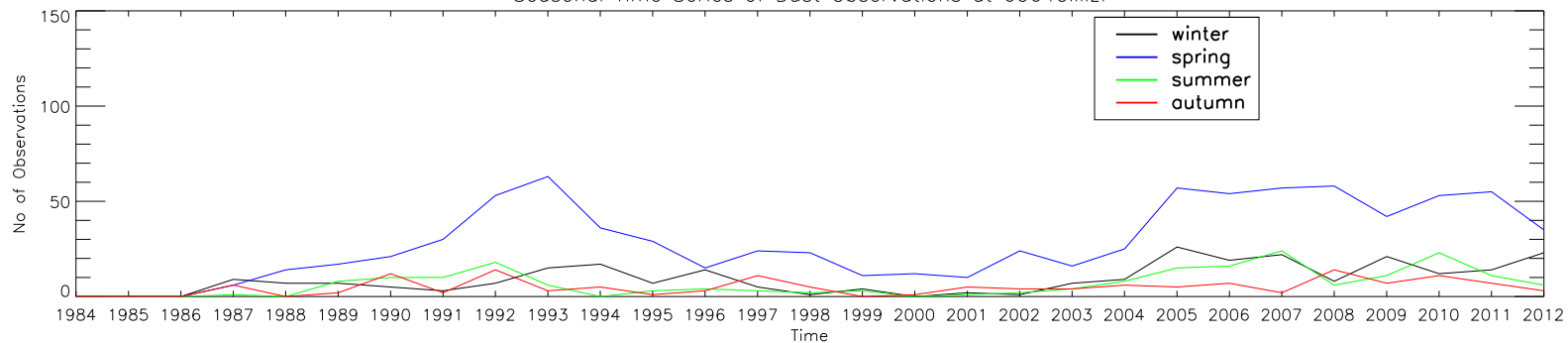
Time Series of All Observations at 60640Illizi



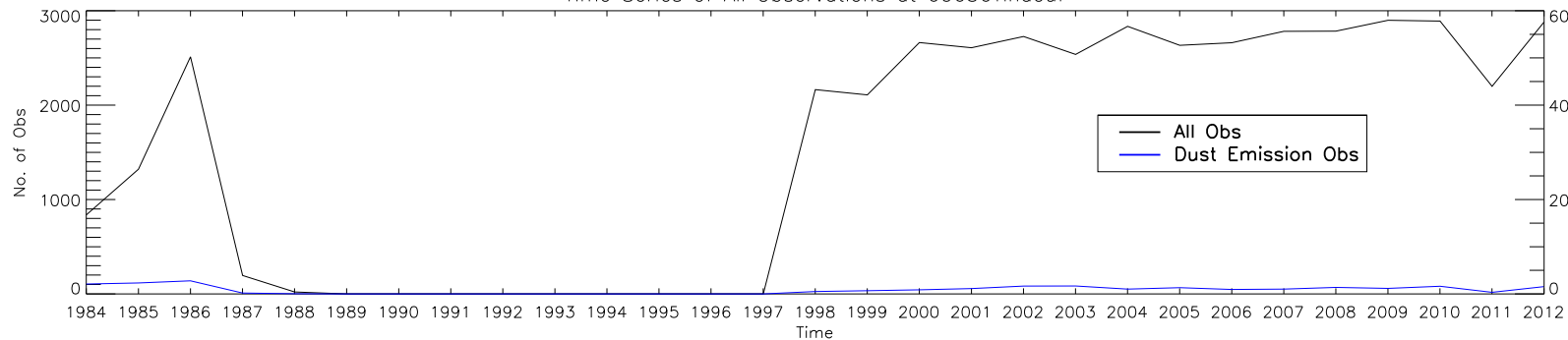
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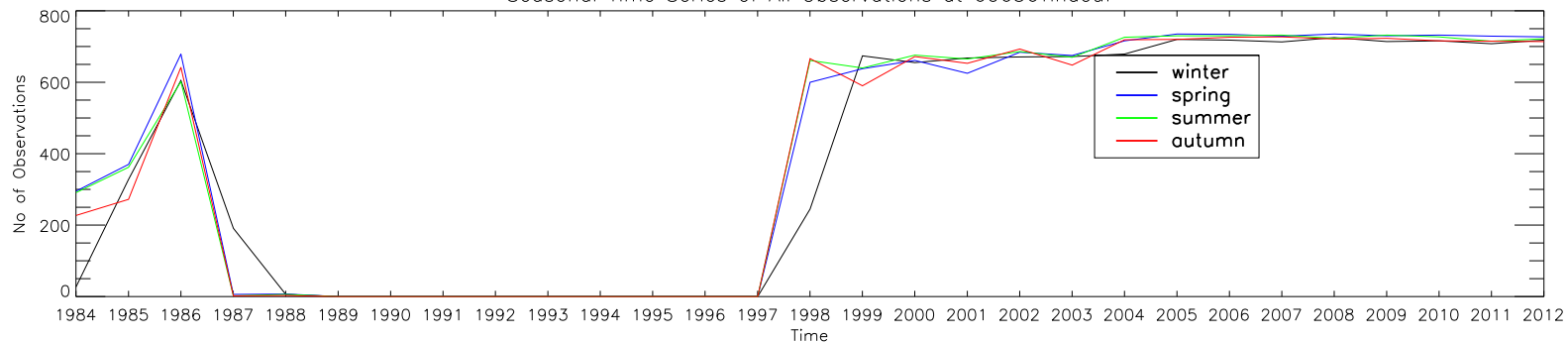
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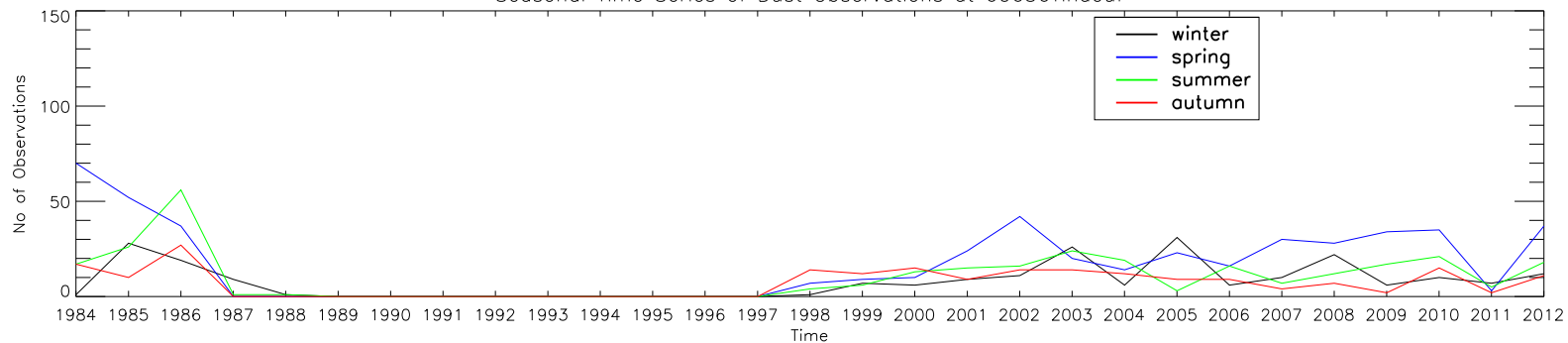
Time Series of All Observations at 60656Tindouf



Seasonal Time Series of All Observations at 60656Tindouf

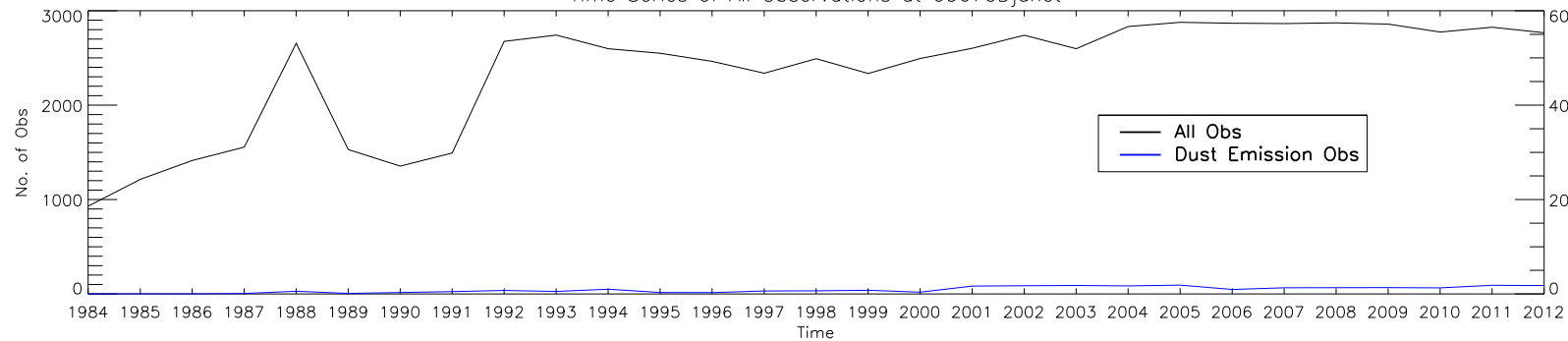


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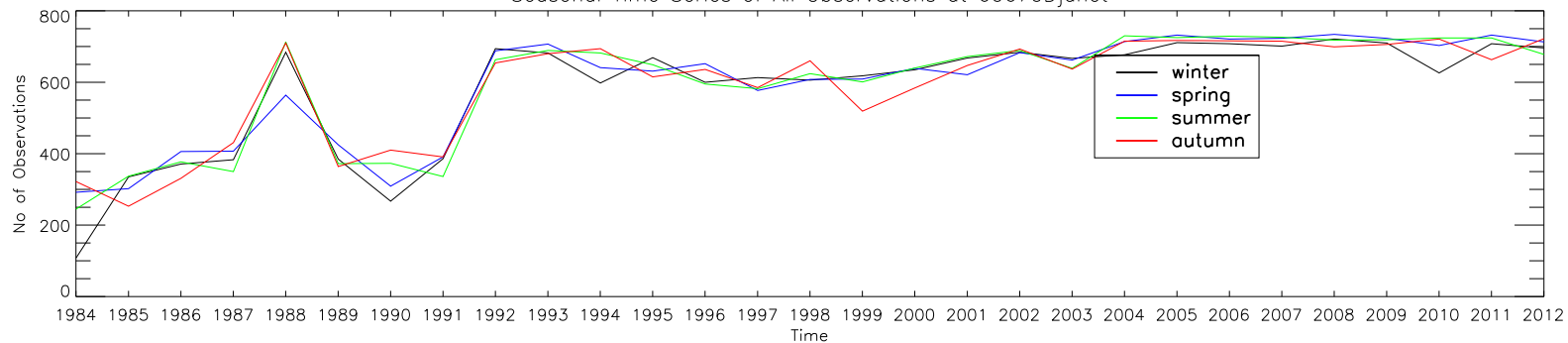




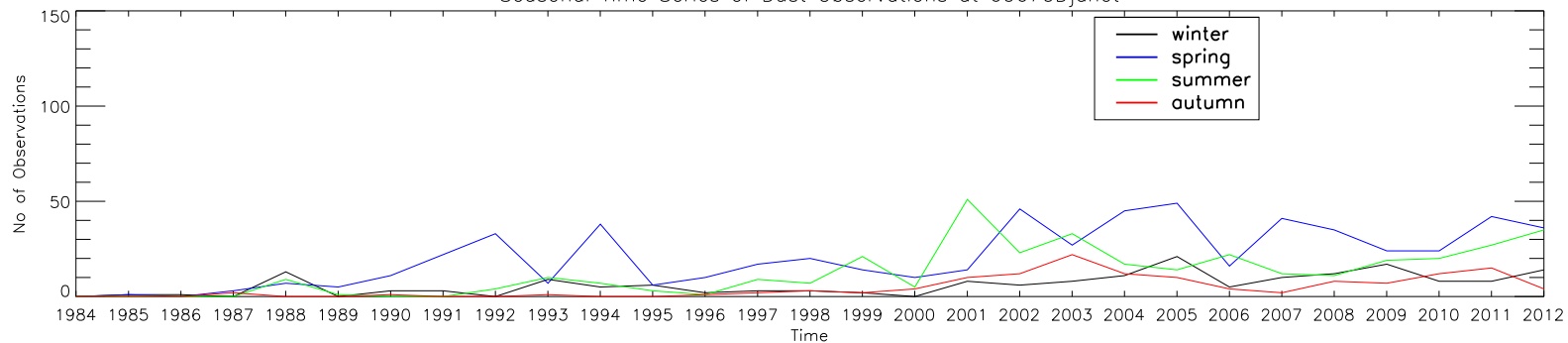
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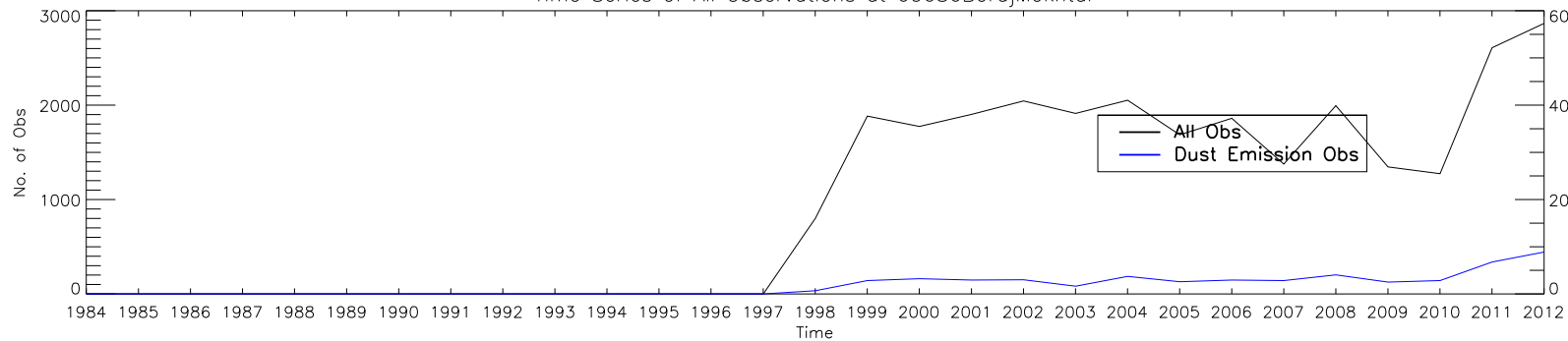
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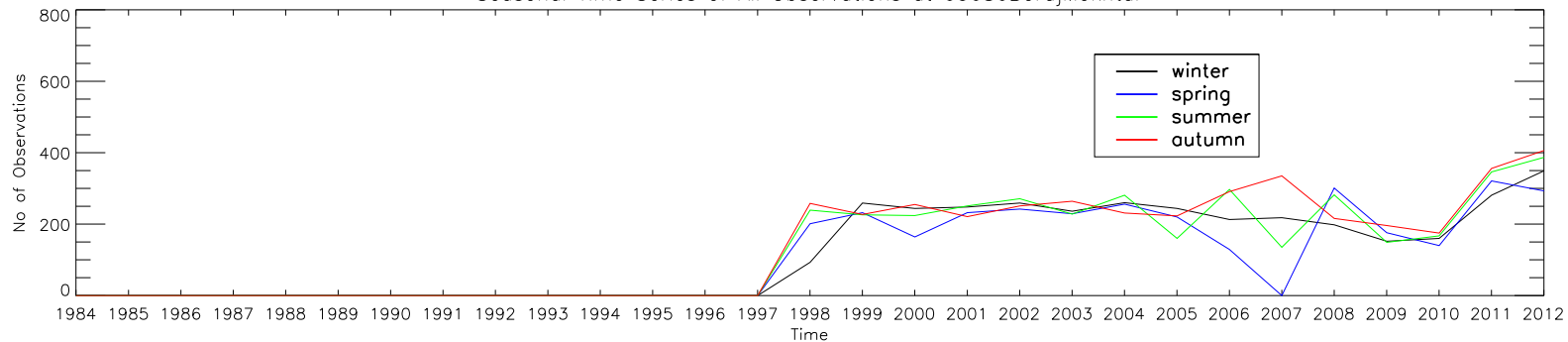
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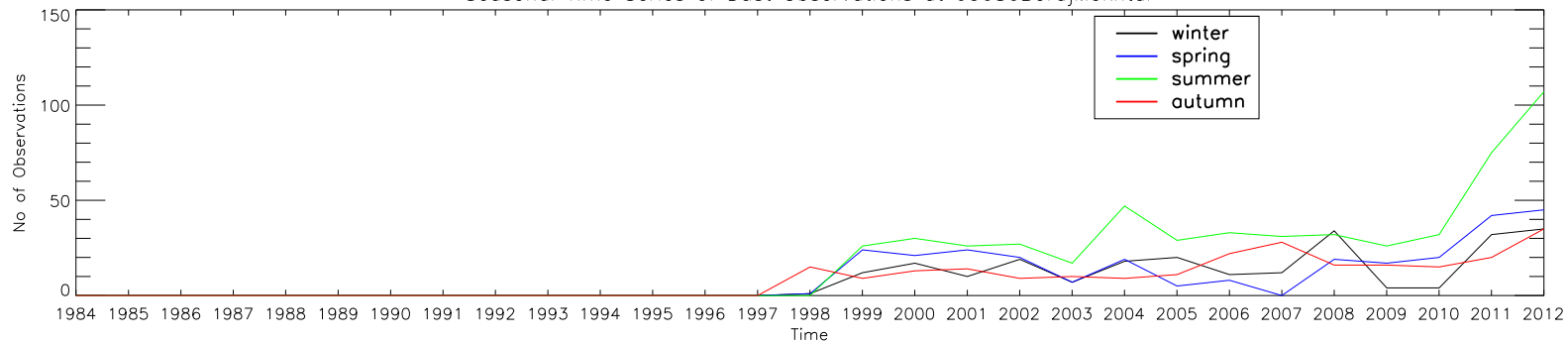
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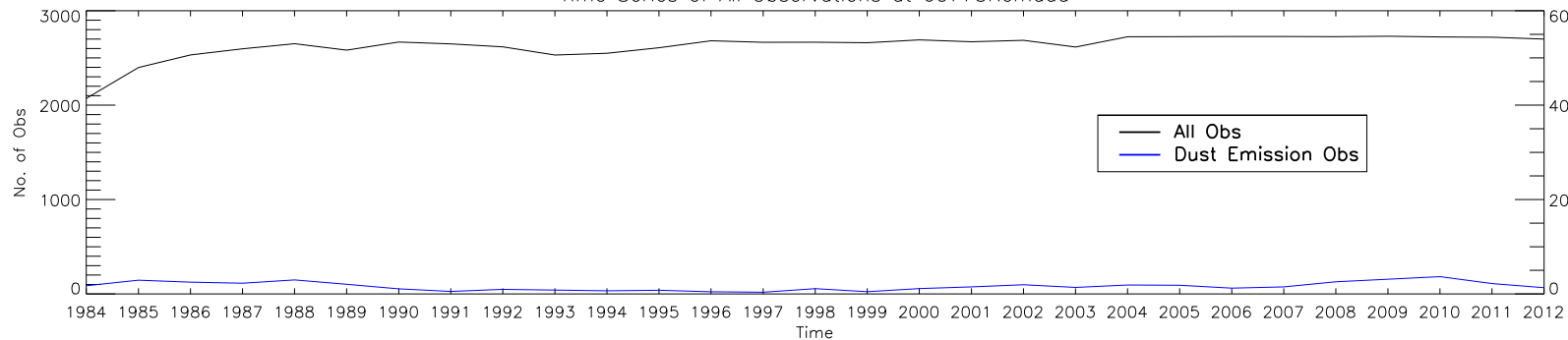
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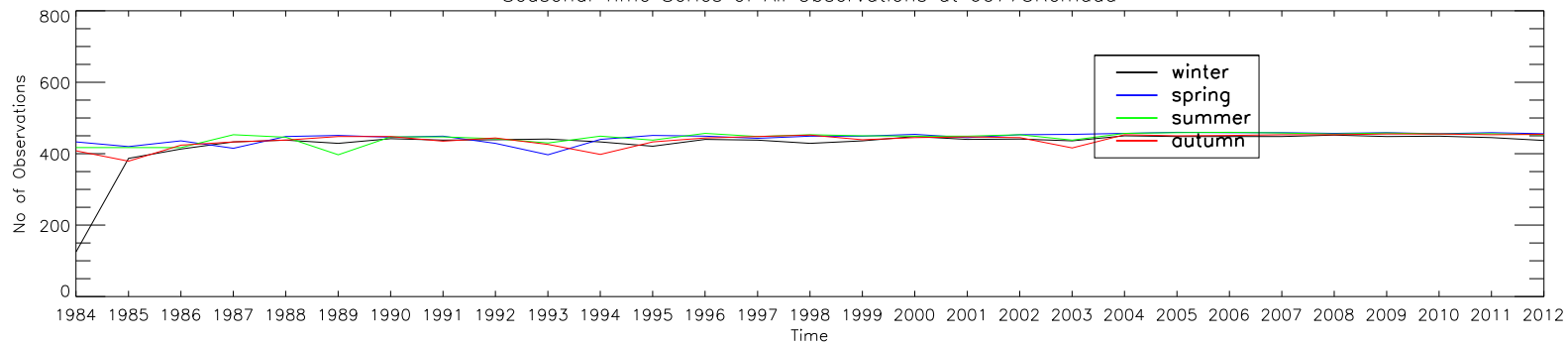
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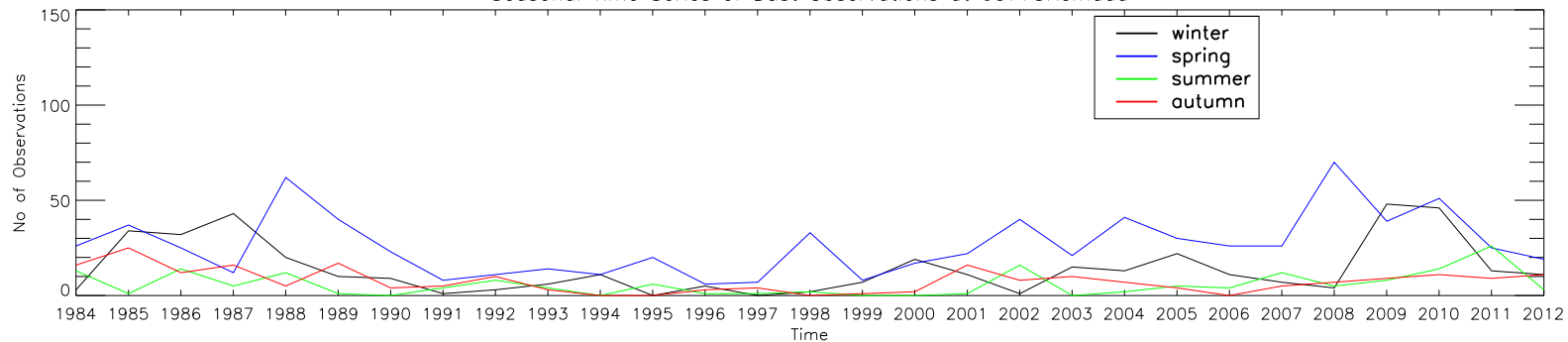
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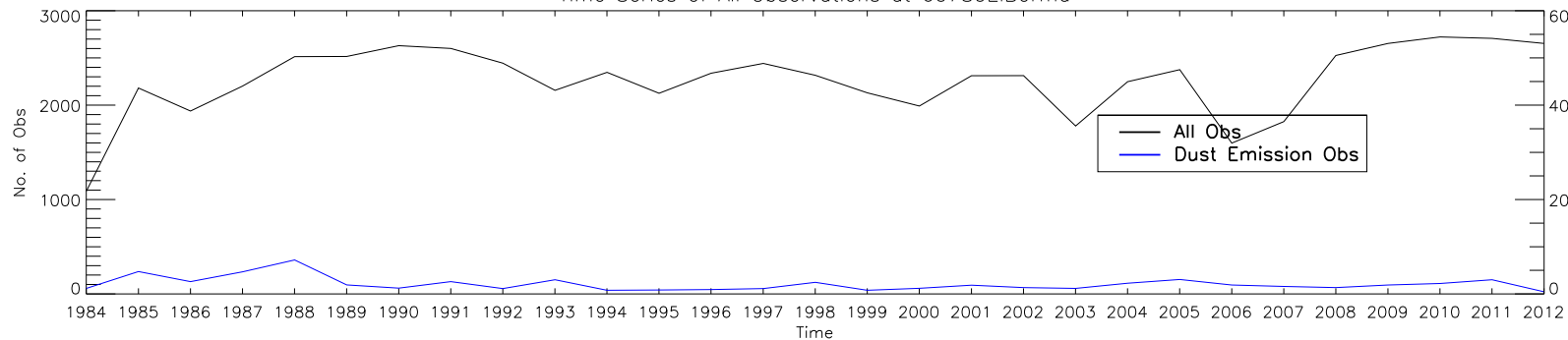
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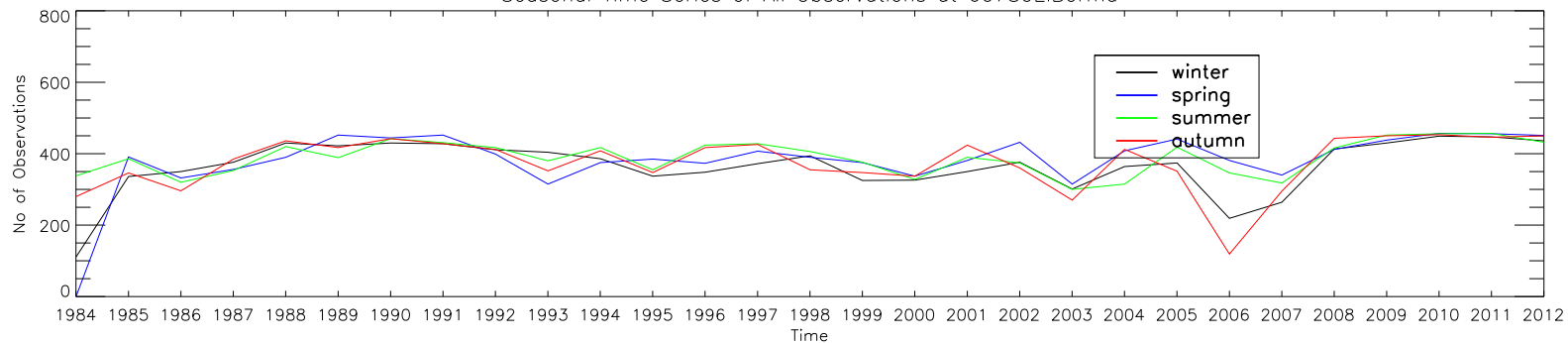
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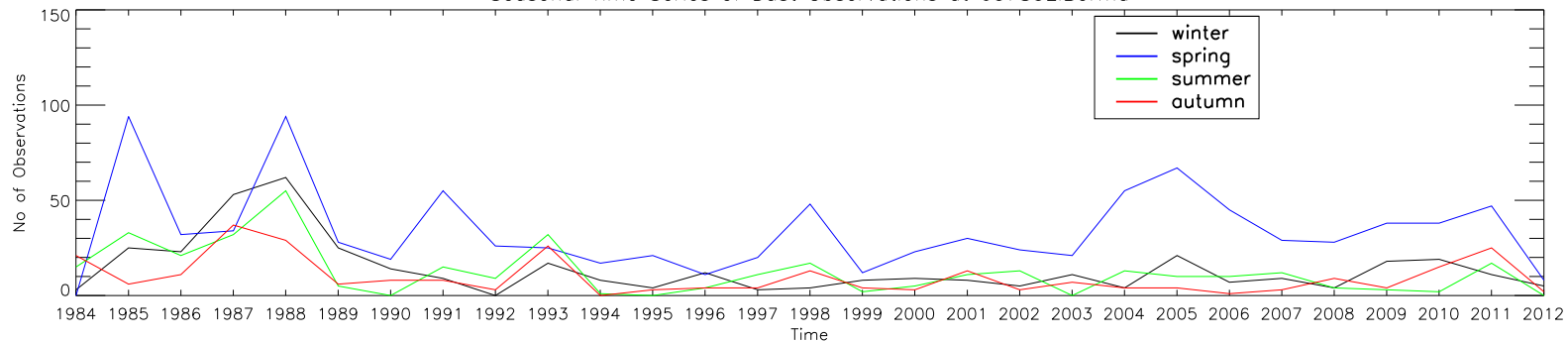
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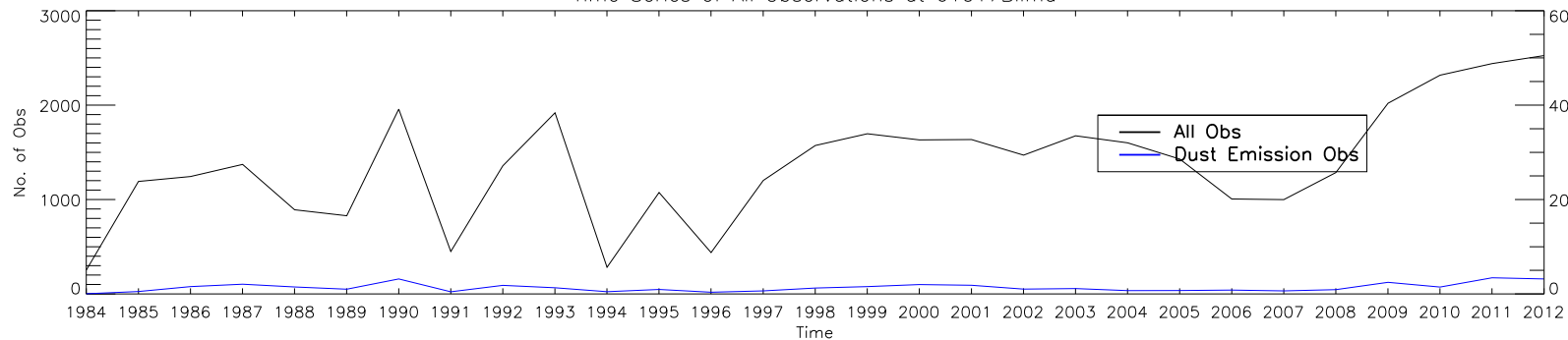
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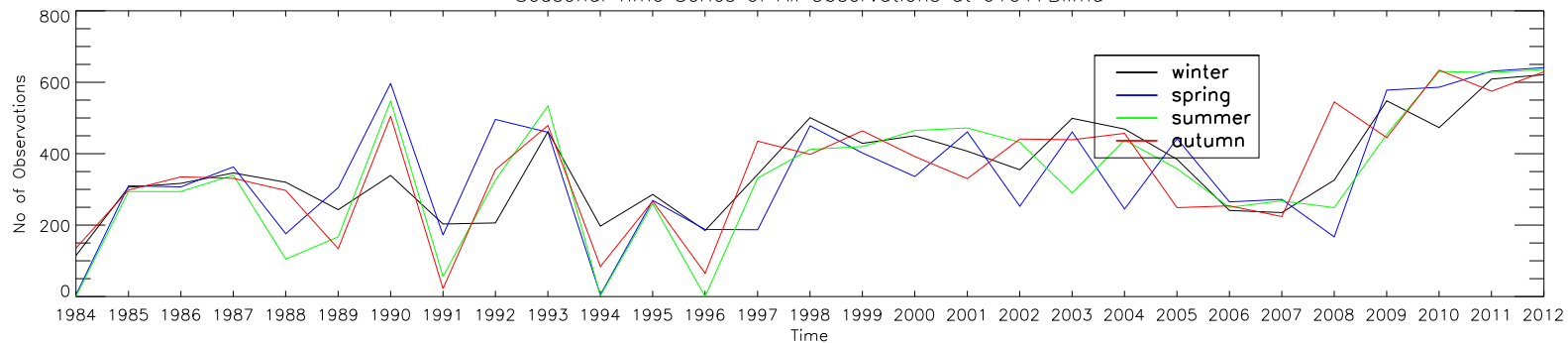
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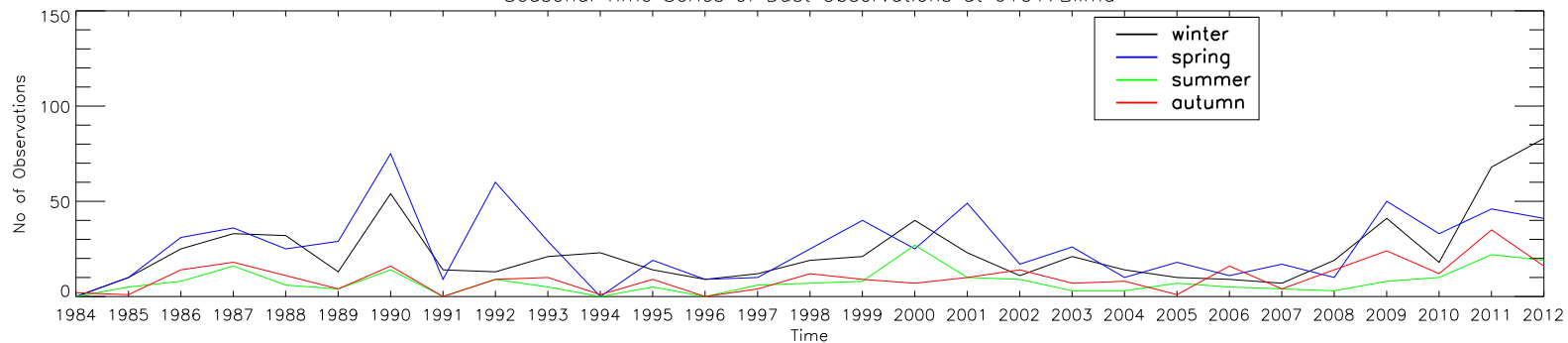
Time Series of All Observations at 61017Bilma



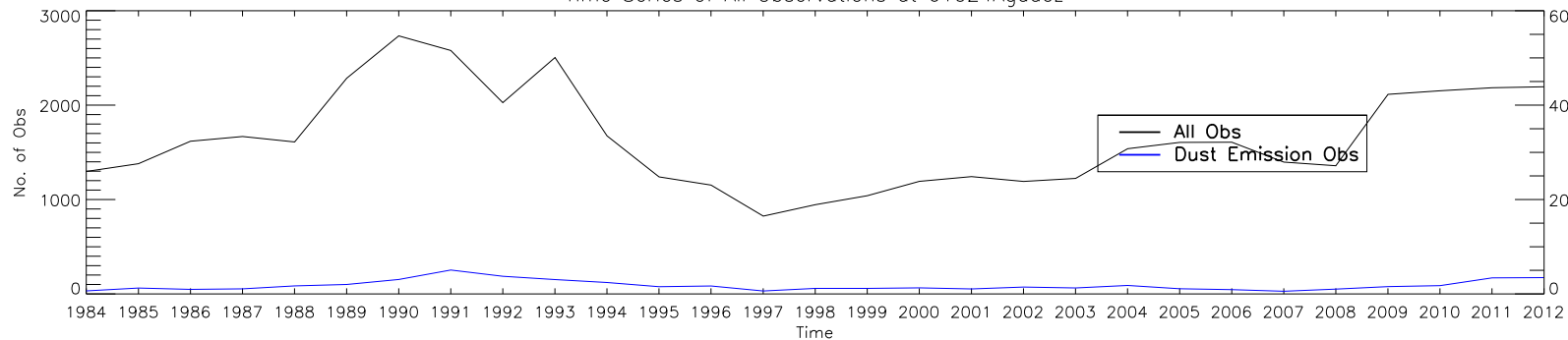
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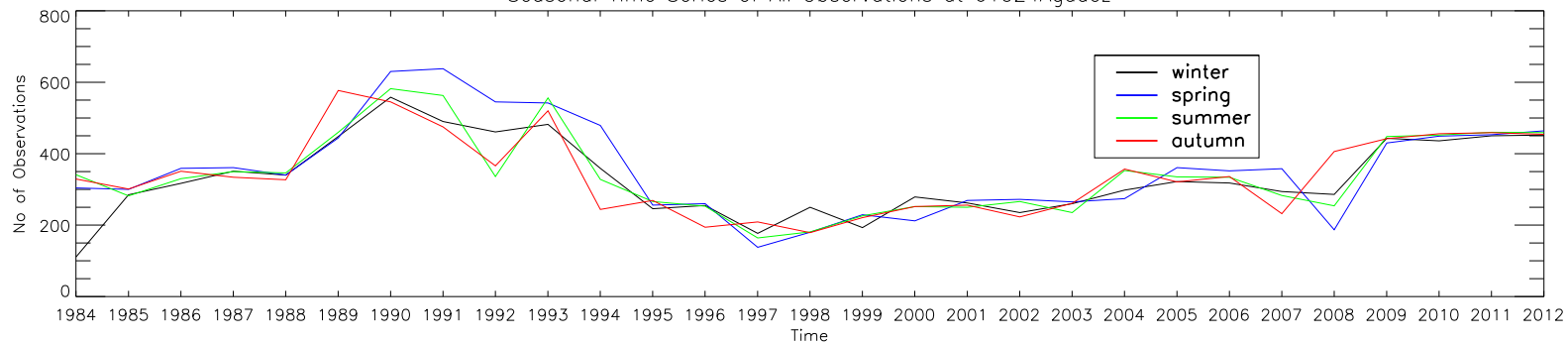
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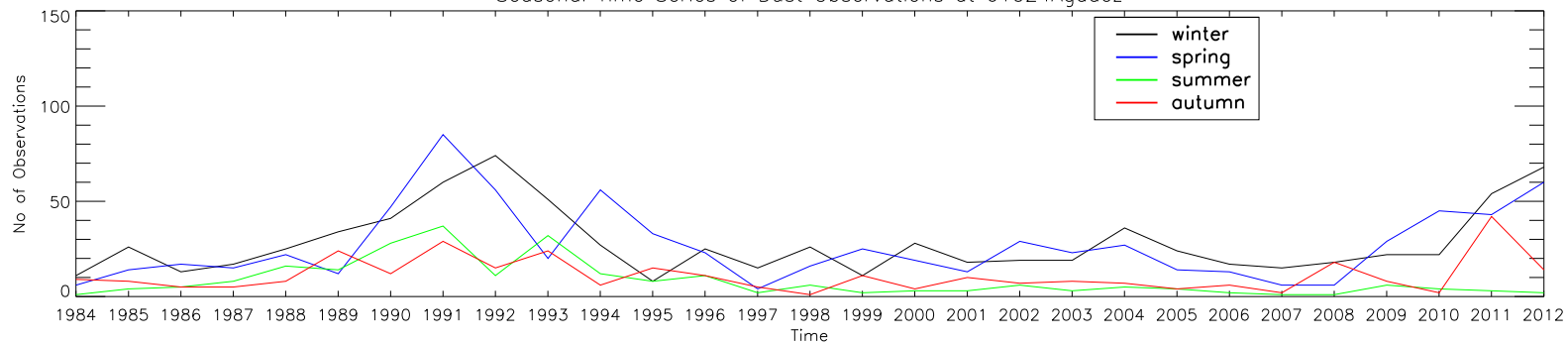
Time Series of All Observations at 61024Agadez



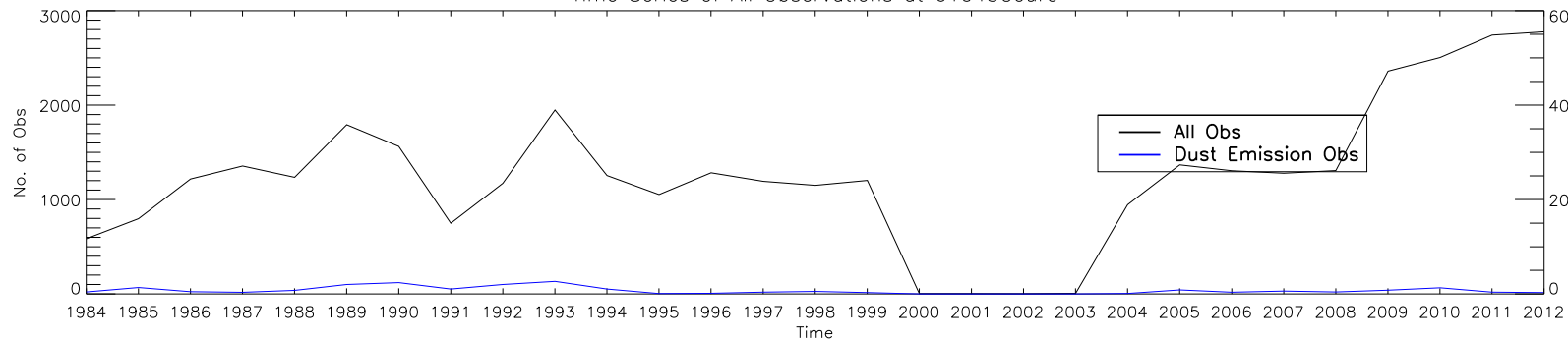
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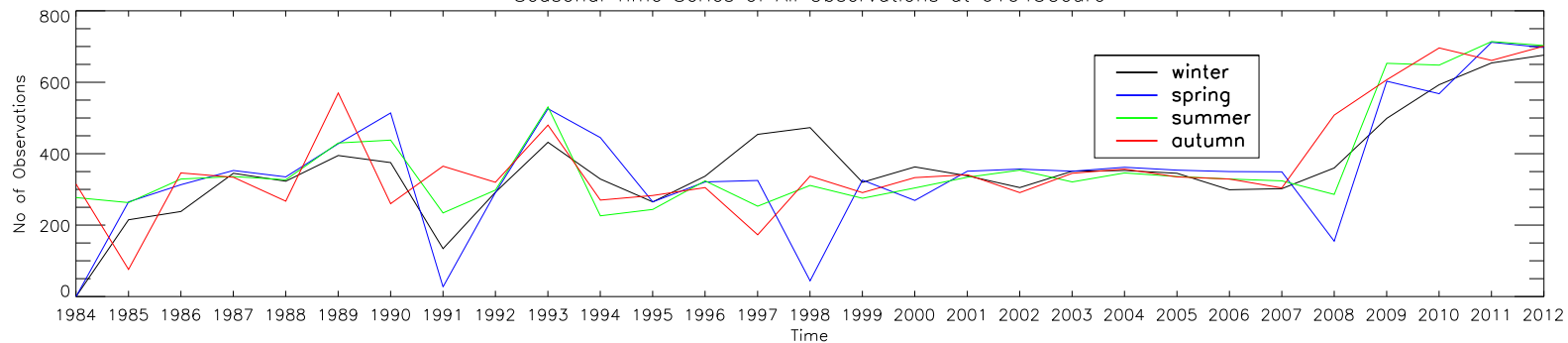
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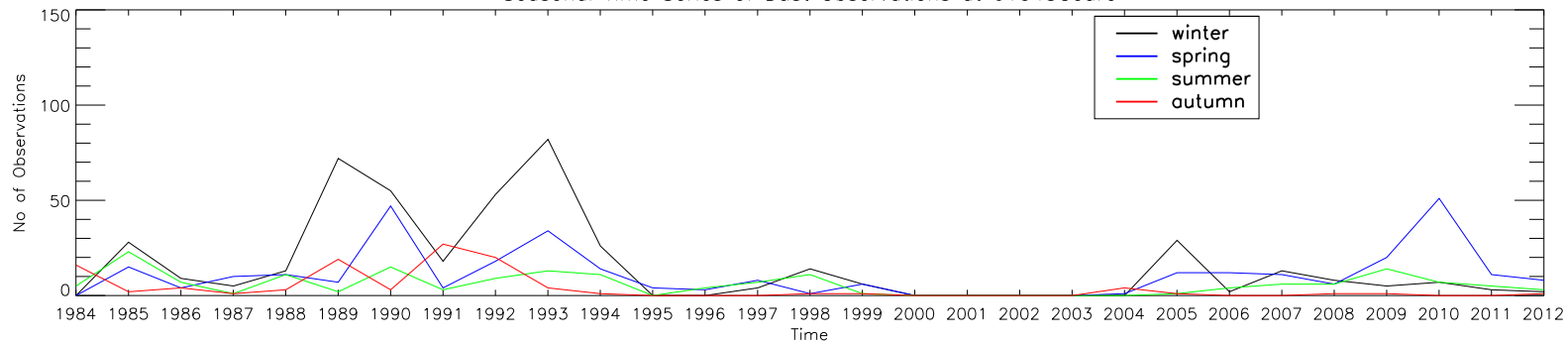
Time Series of All Observations at 61045Goure



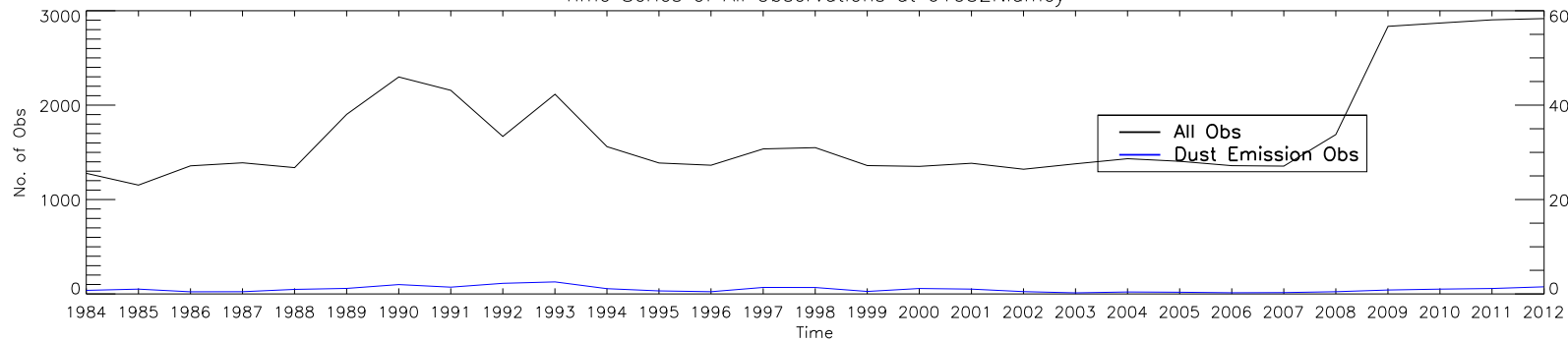
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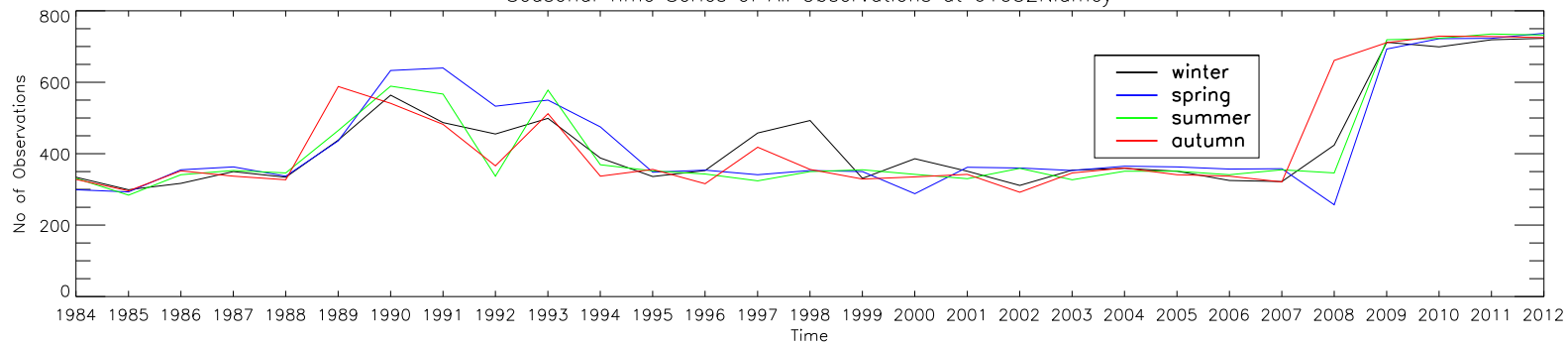
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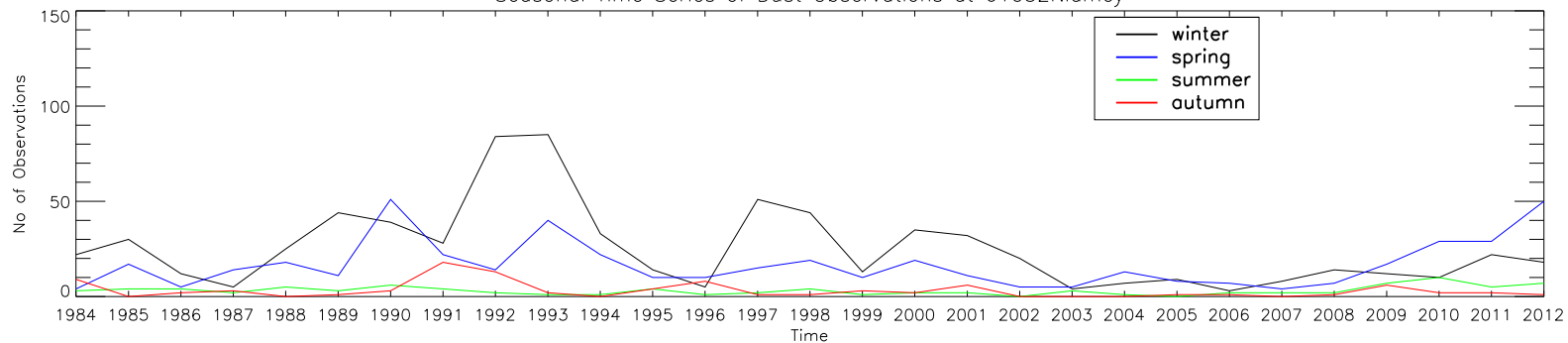
Time Series of All Observations at 61052Niamey



Seasonal Time Series of All Observations at 61052Niamey

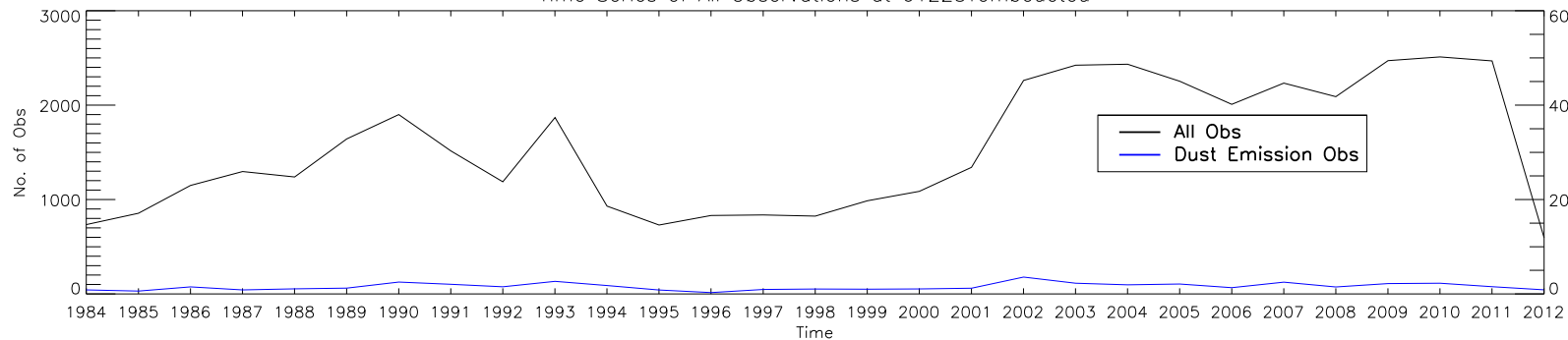


Seasonal Time Series of Dust Observations at 61052Niamey

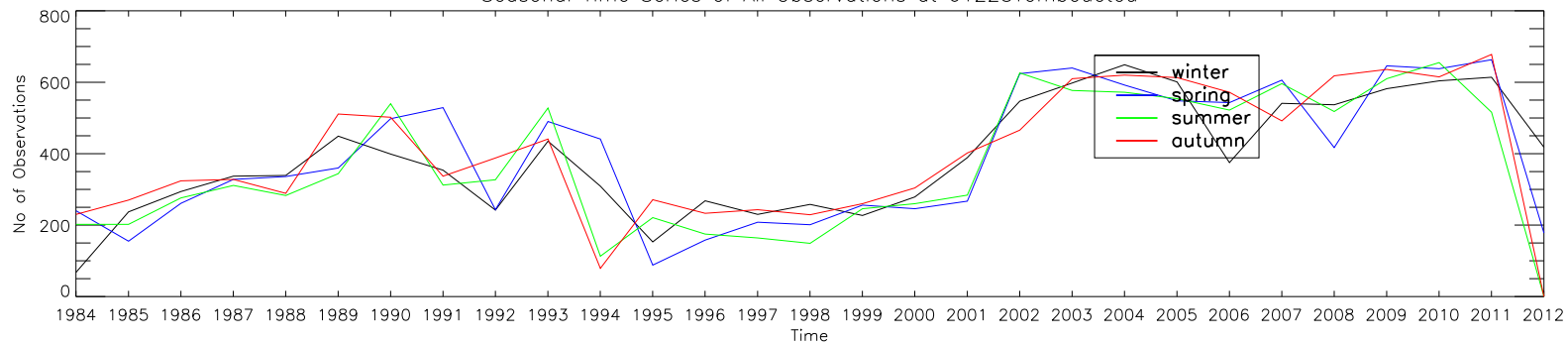




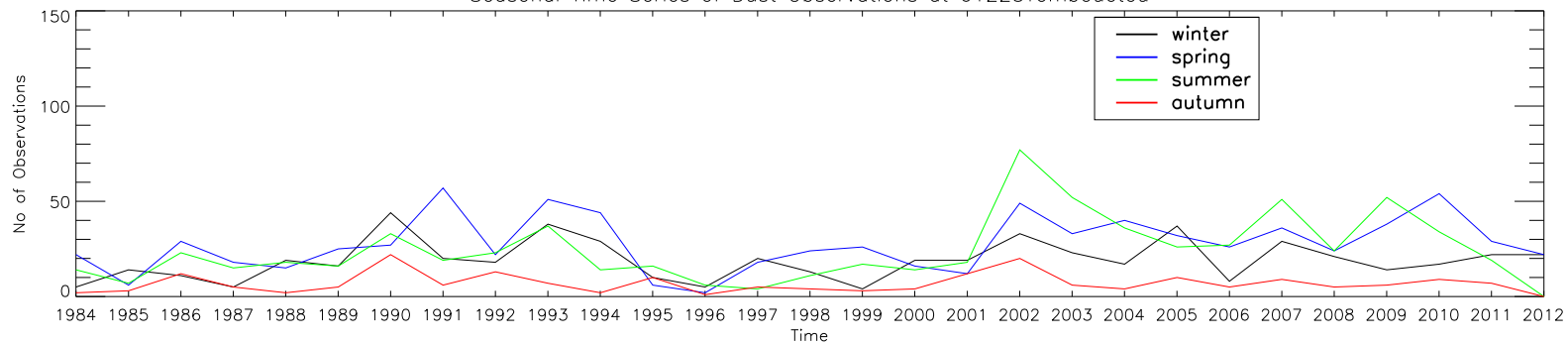
Time Series of All Observations at 61223Tombouctou



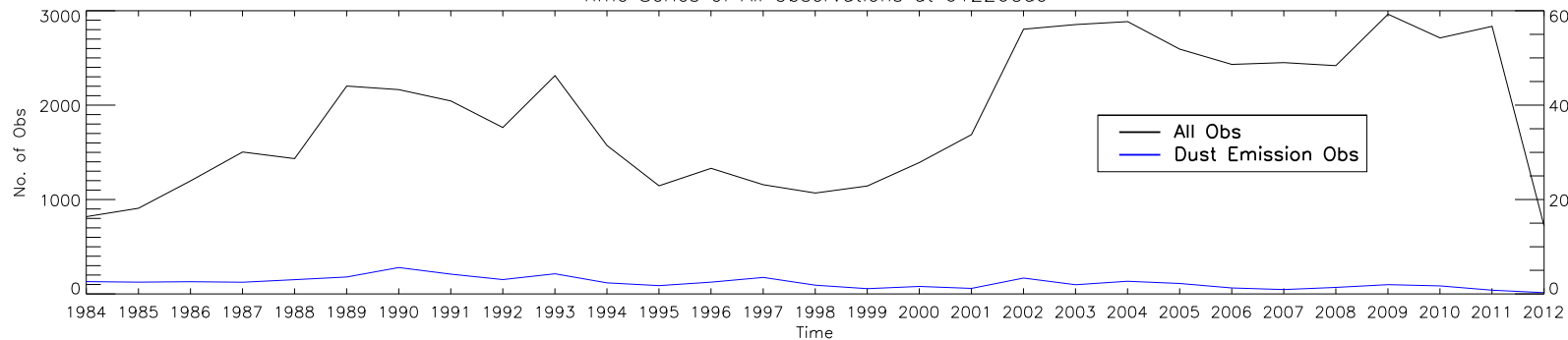
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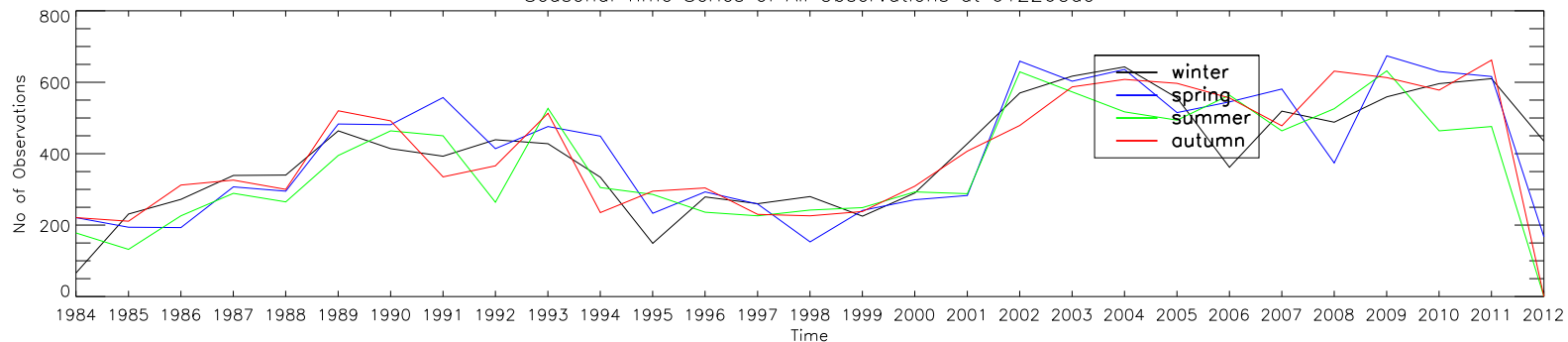
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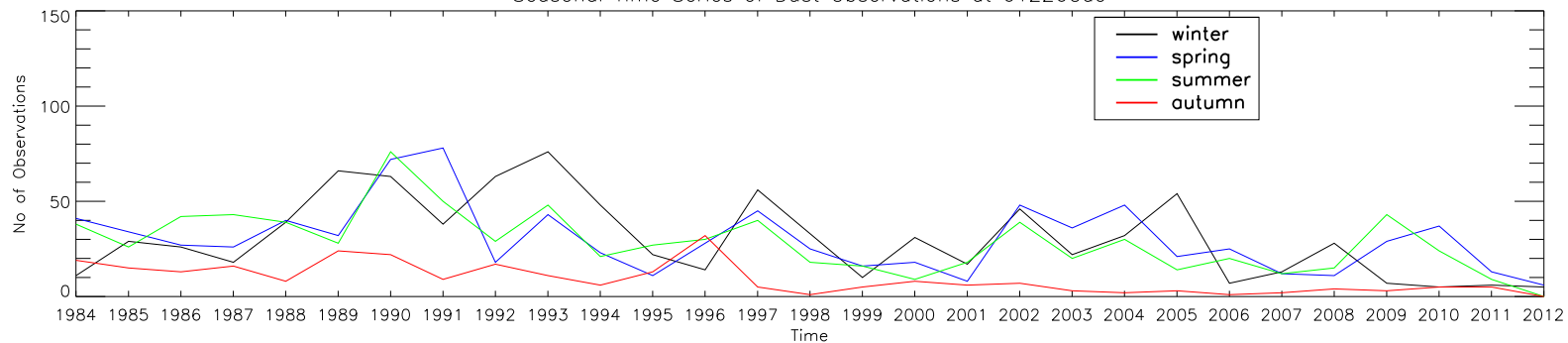
Time Series of All Observations at 61226Gao



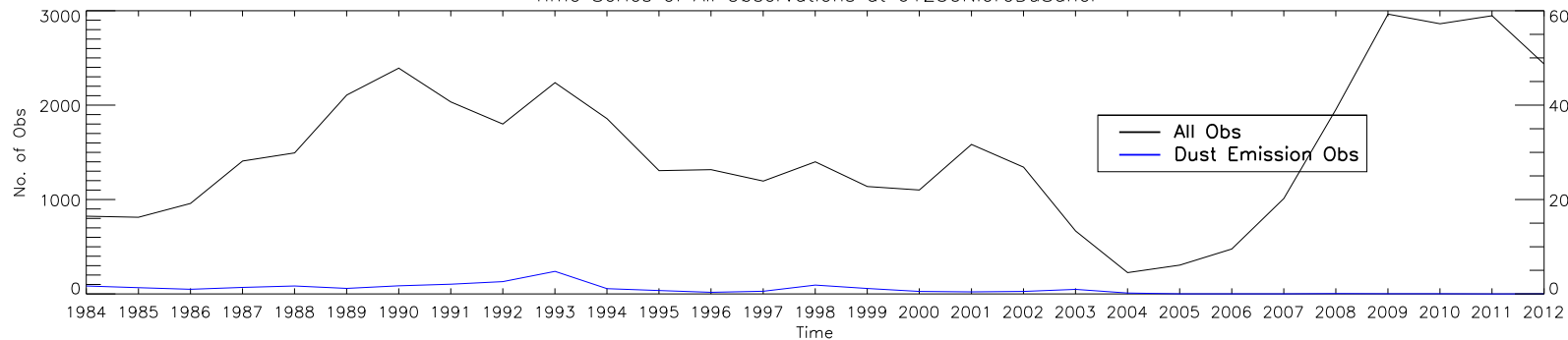
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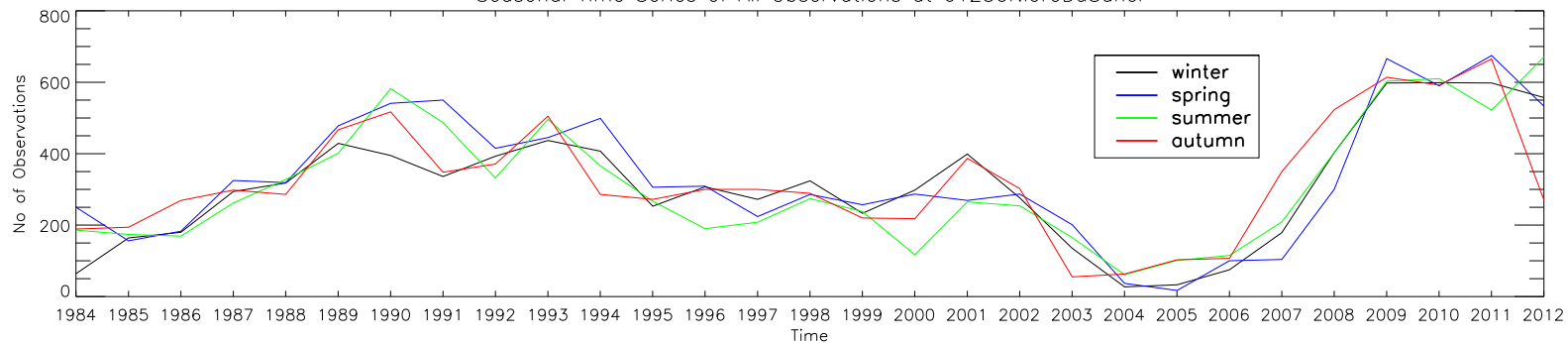
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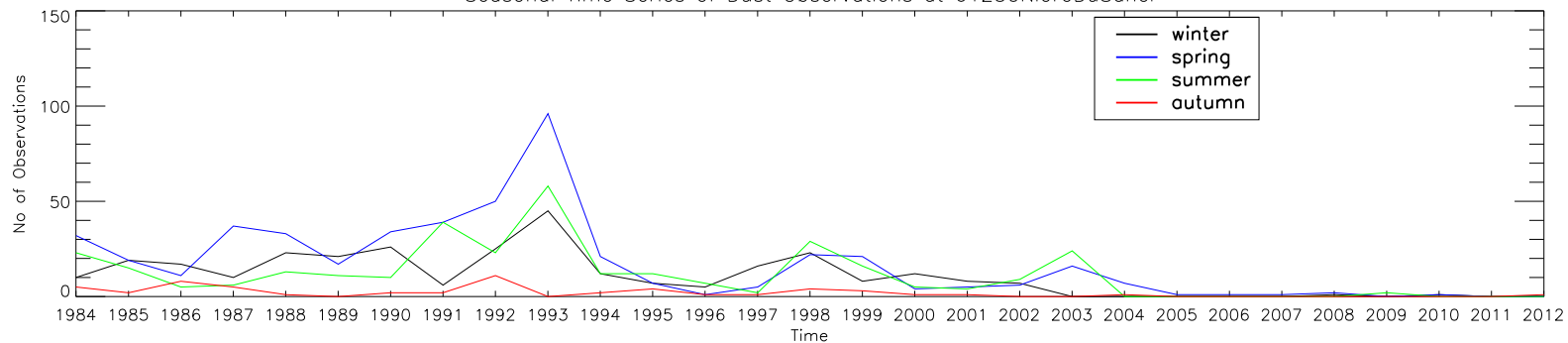
Time Series of All Observations at 61230NioroDuSahel

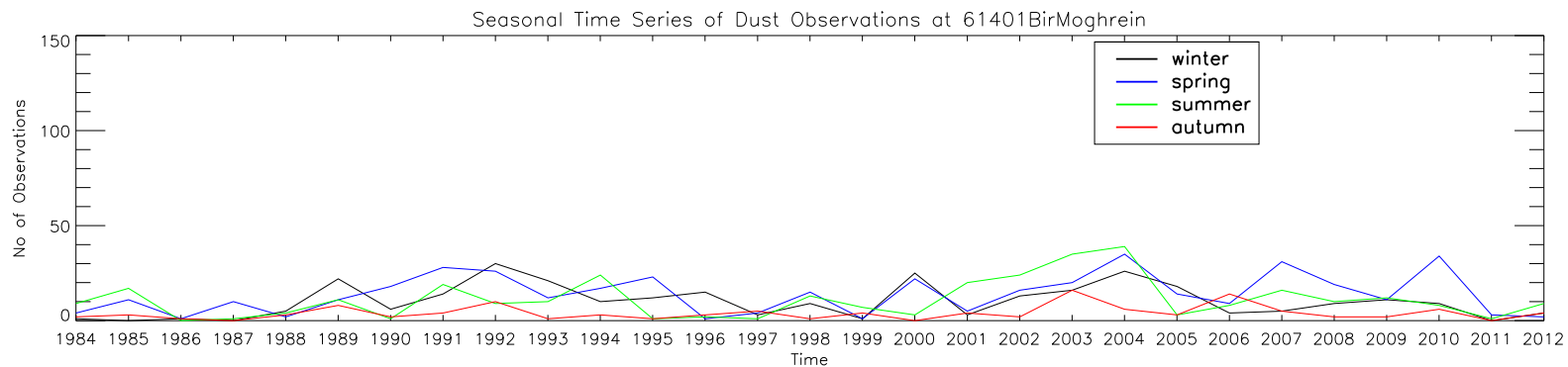
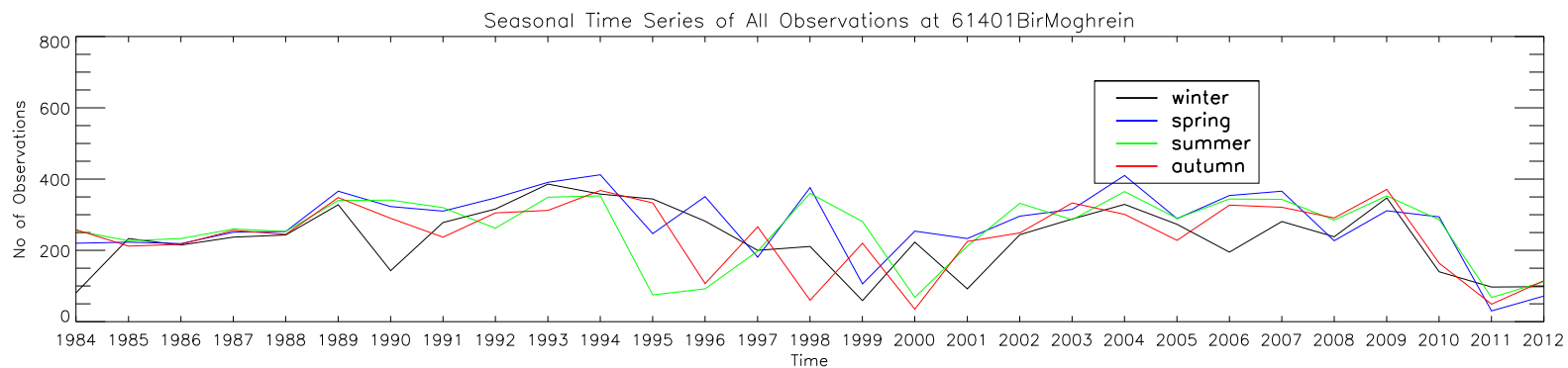
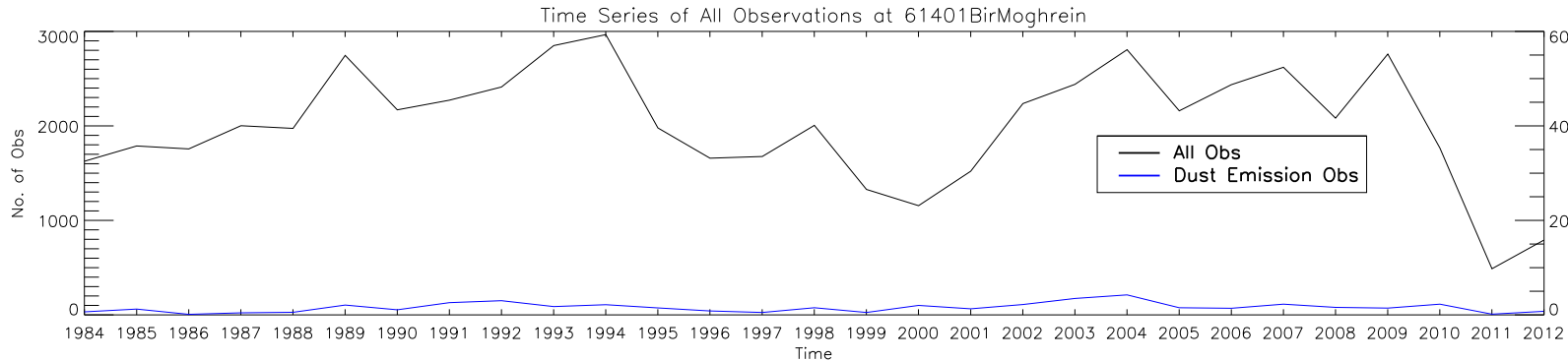


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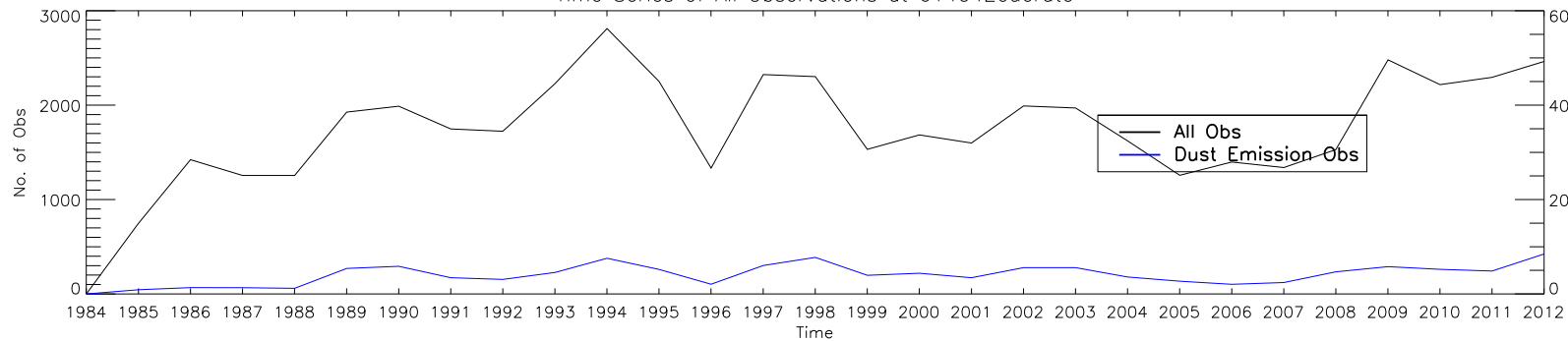


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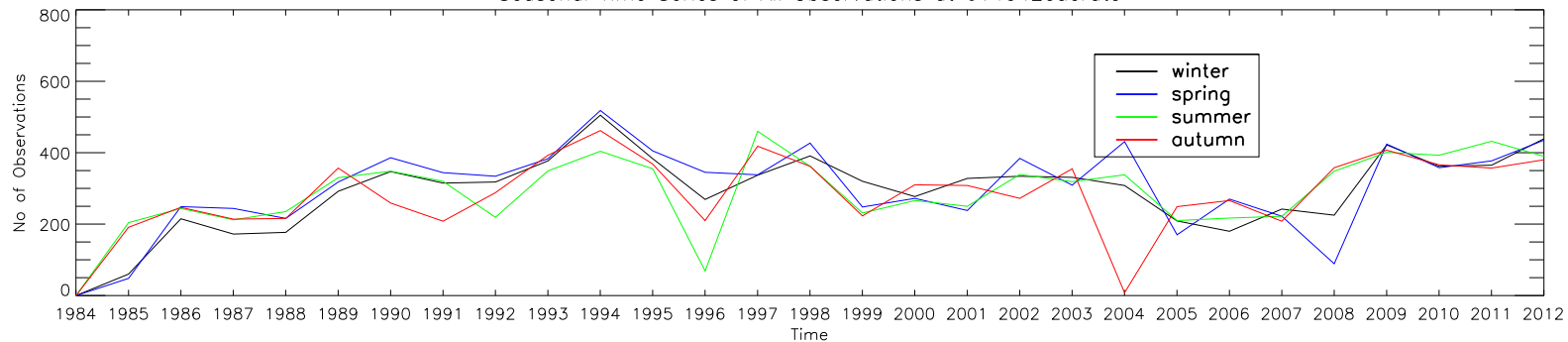




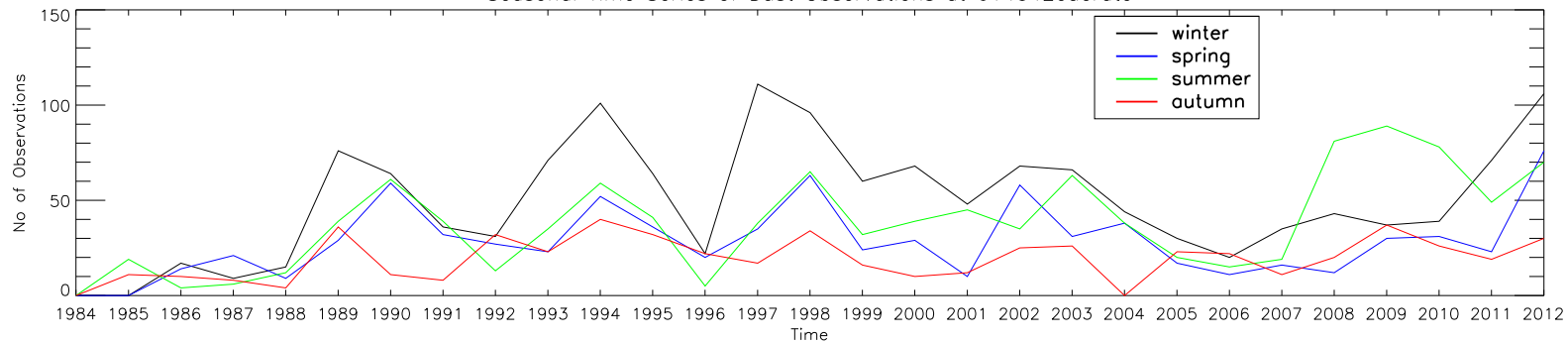
Time Series of All Observations at 61404Zouerate



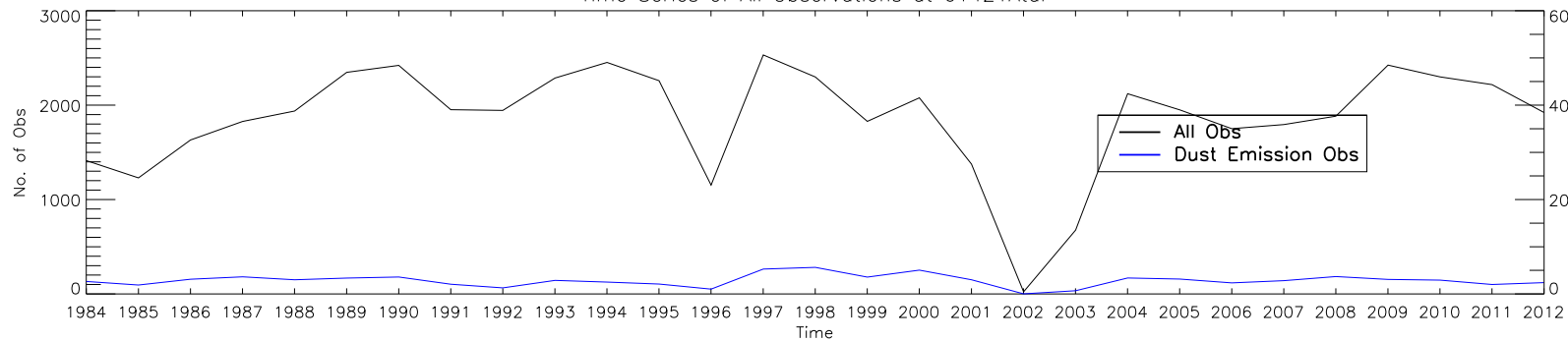
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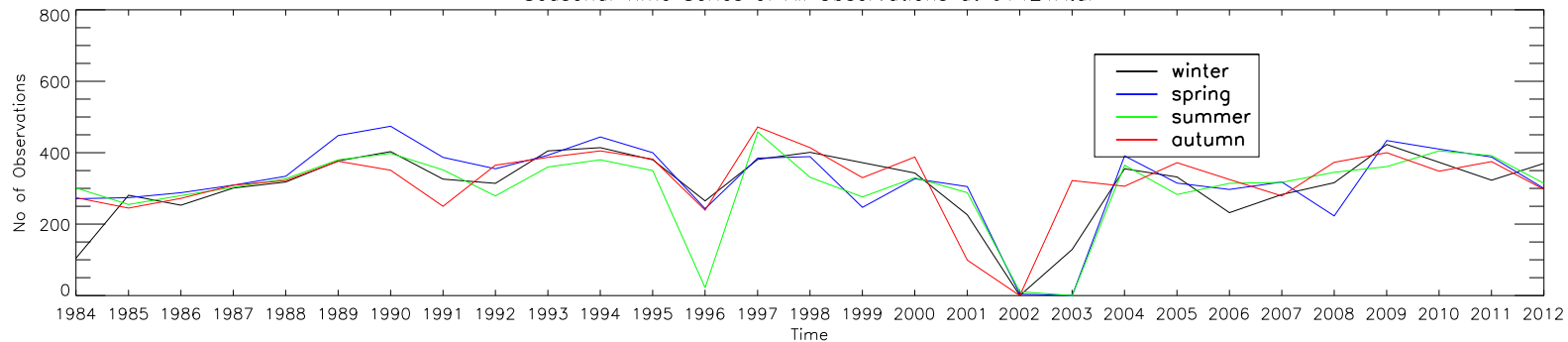
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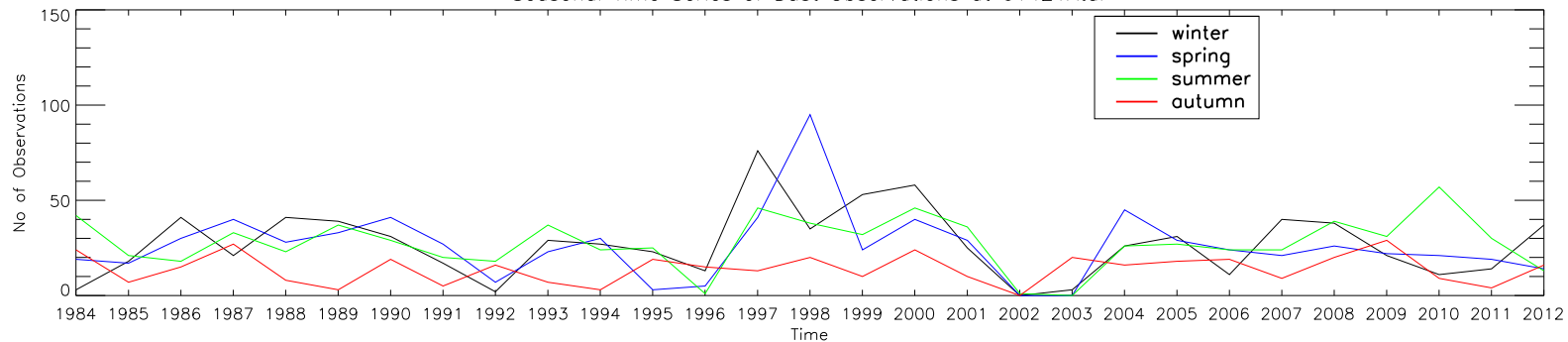
Time Series of All Observations at 61421Atar



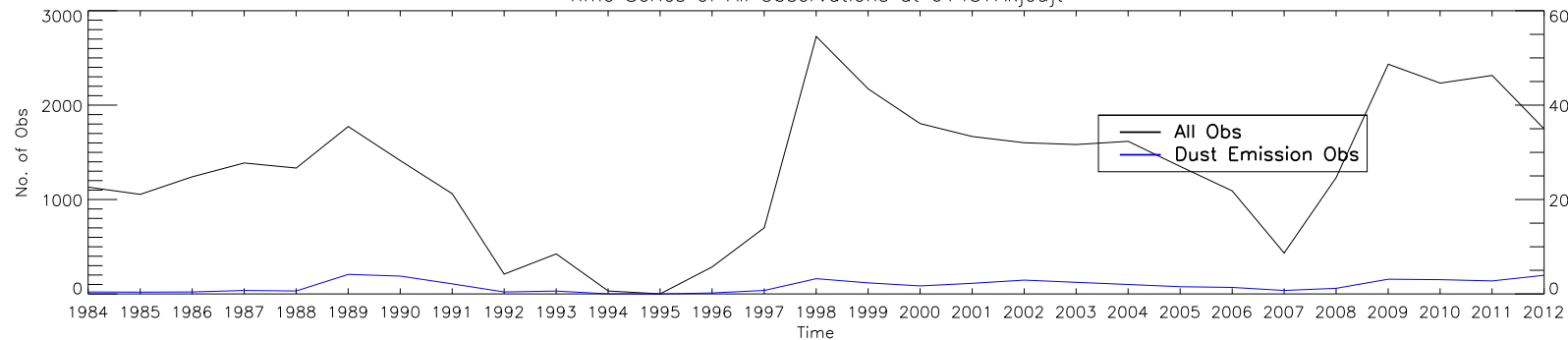
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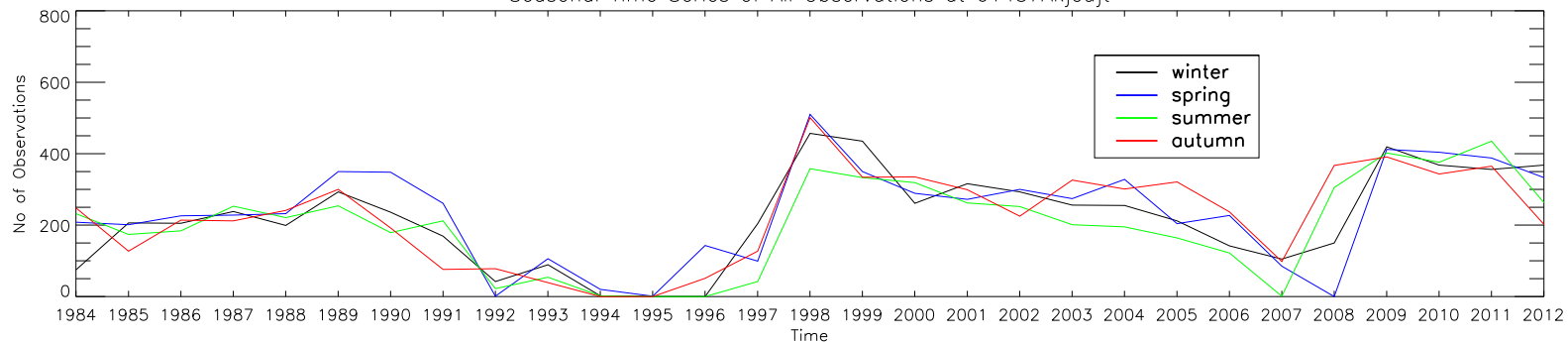
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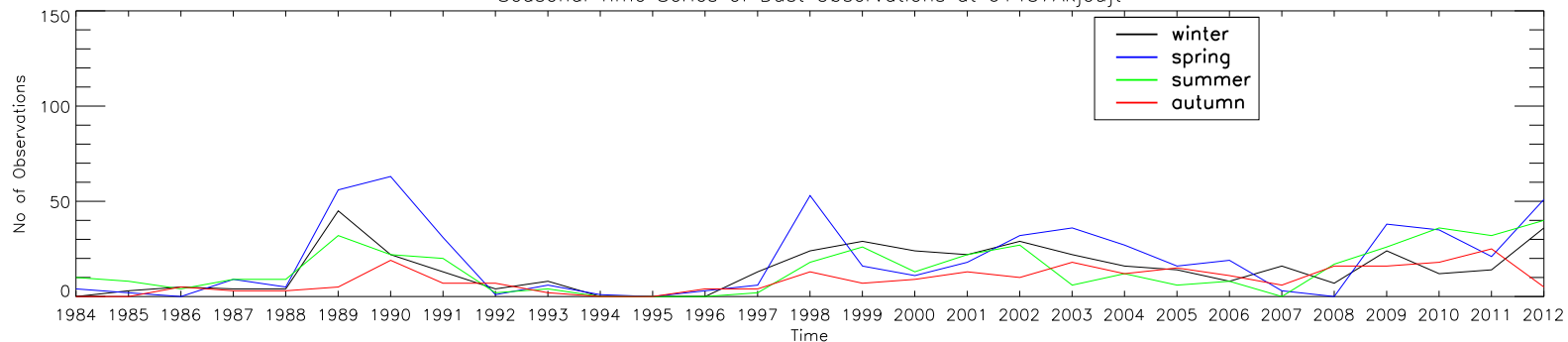
Time Series of All Observations at 61437Akjoujt



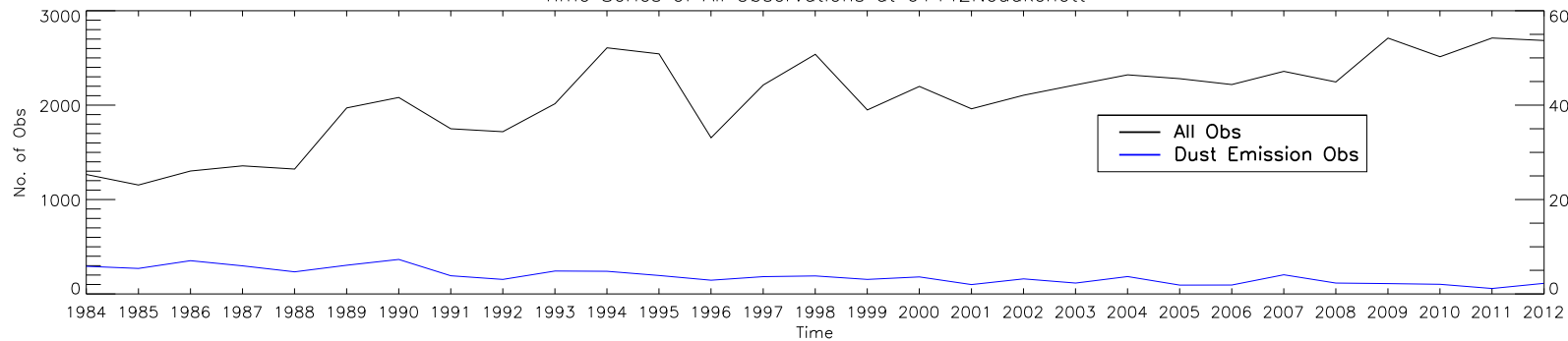
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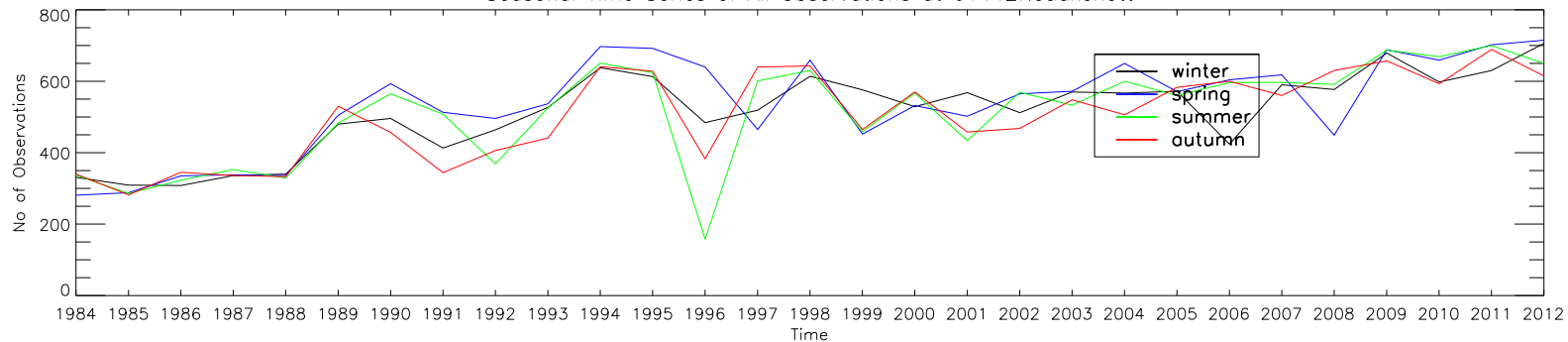
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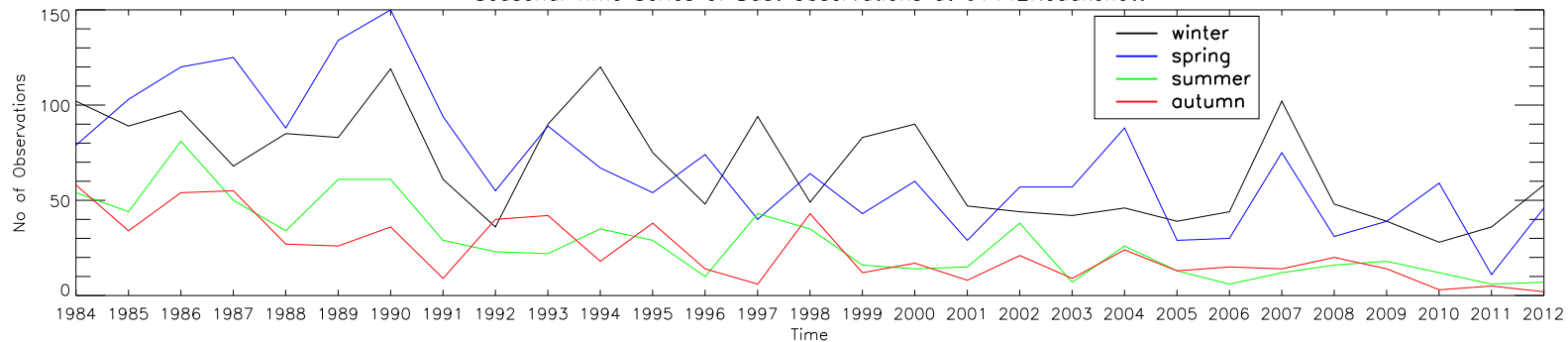
Time Series of All Observations at 61442Nouakchott



Seasonal Time Series of All Observations at 61442Nouakchott

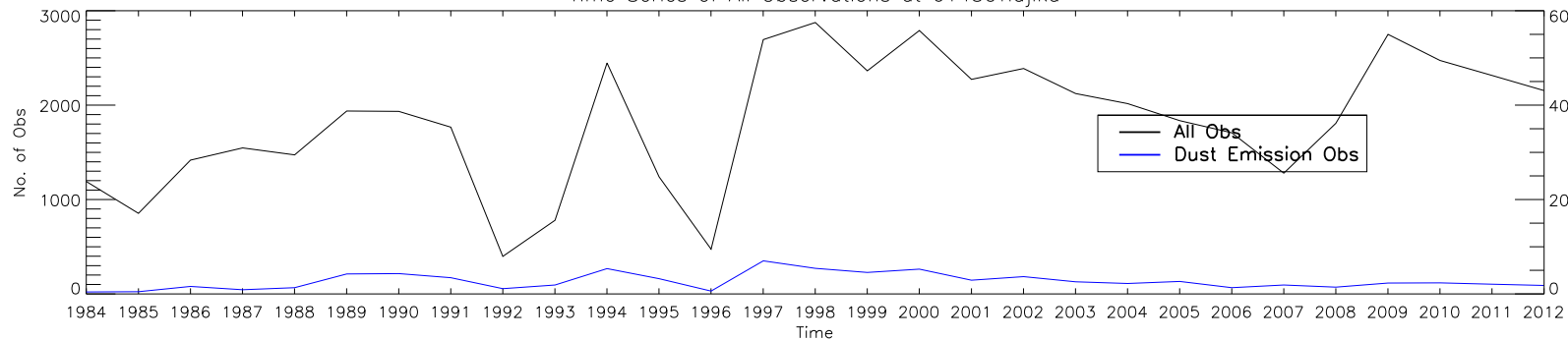


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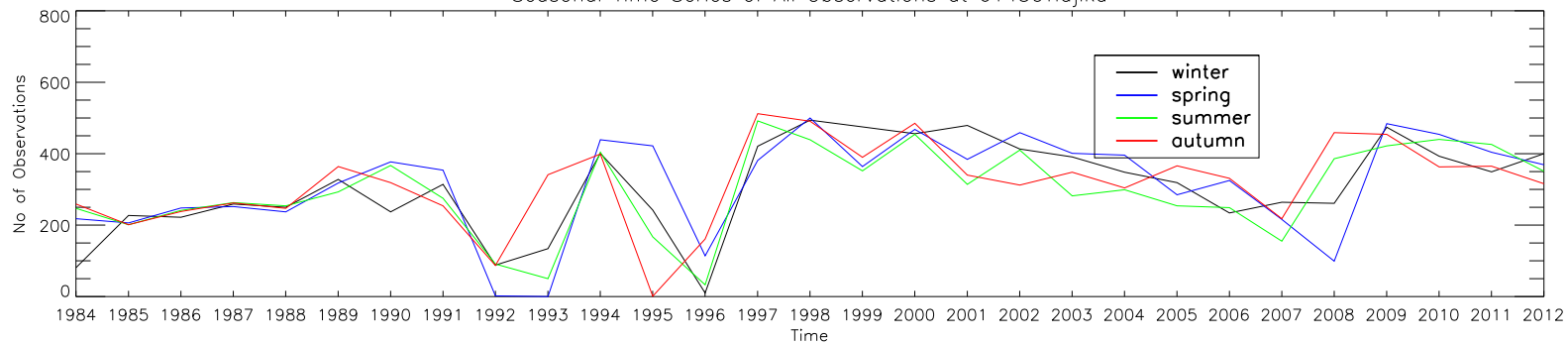




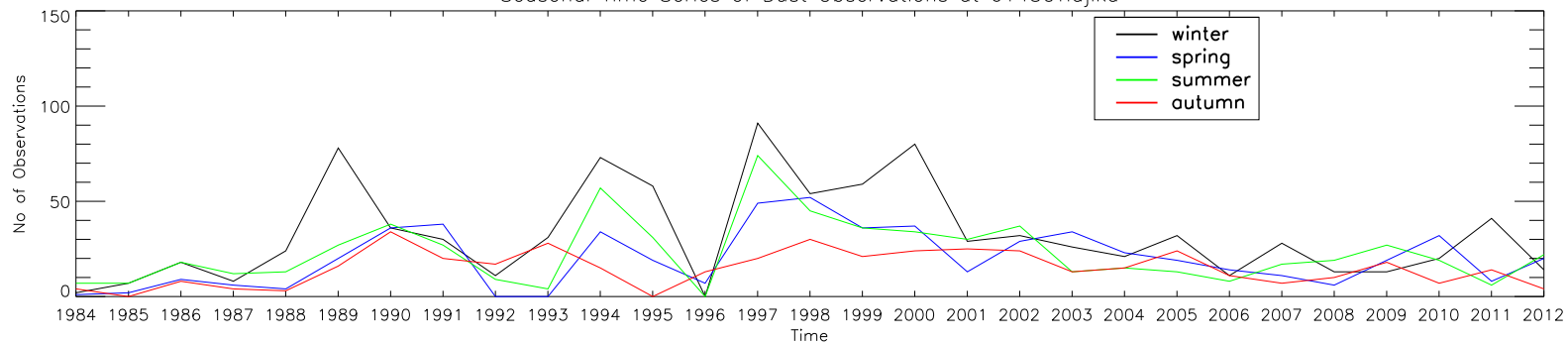
Time Series of All Observations at 61450Tidjika



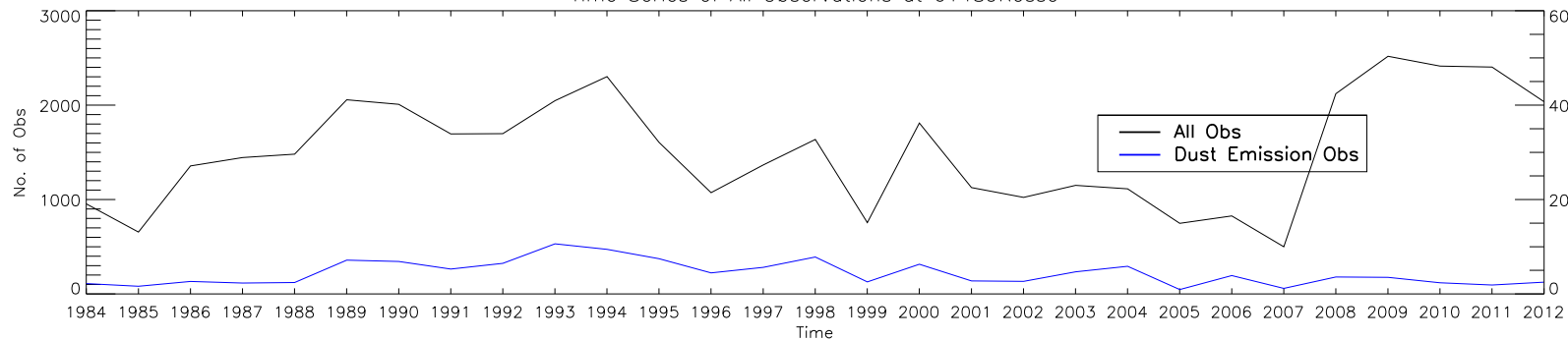
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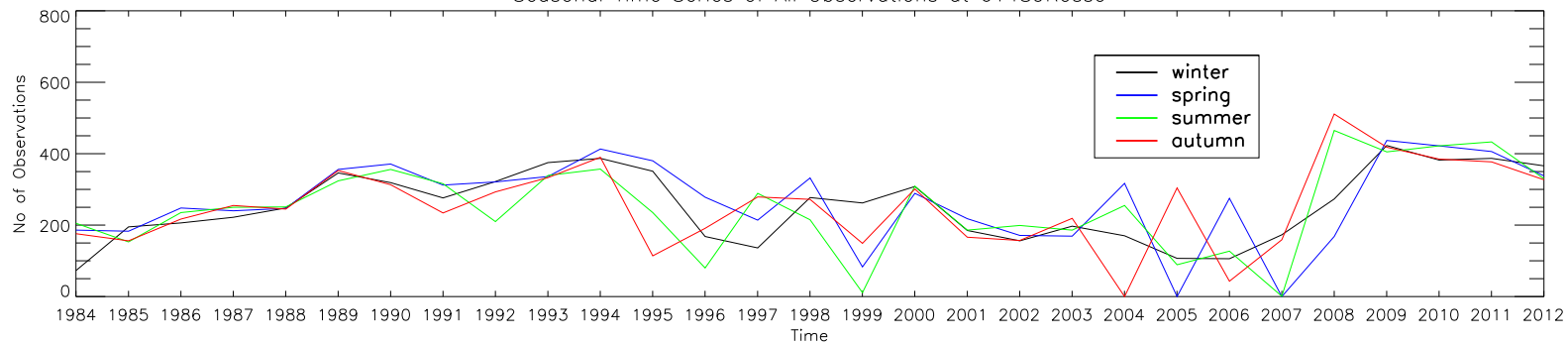
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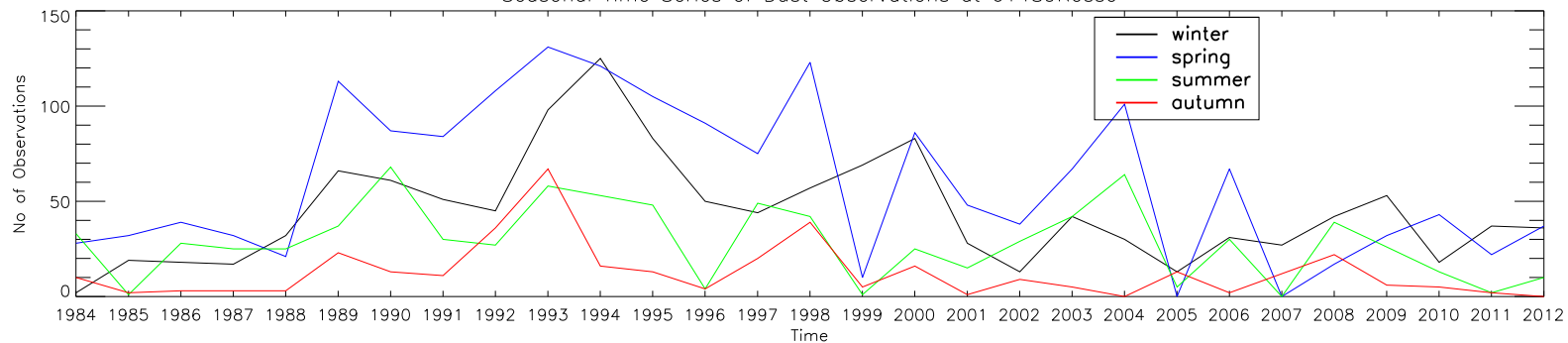
Time Series of All Observations at 61489Rosso



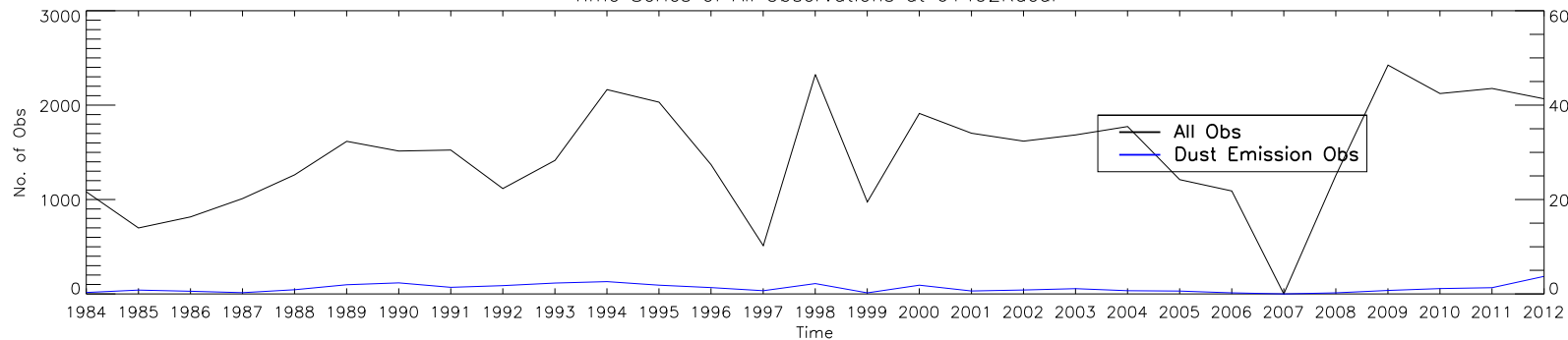
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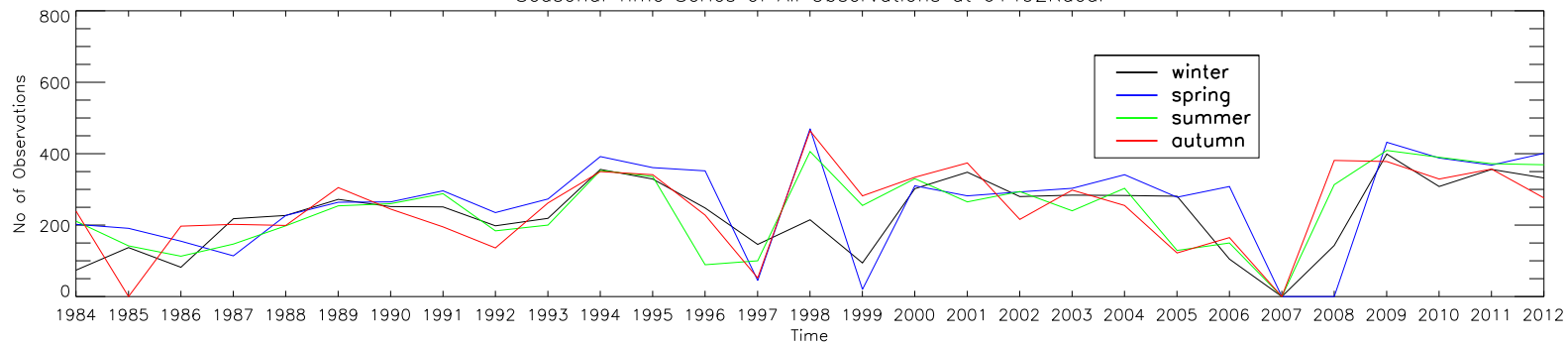
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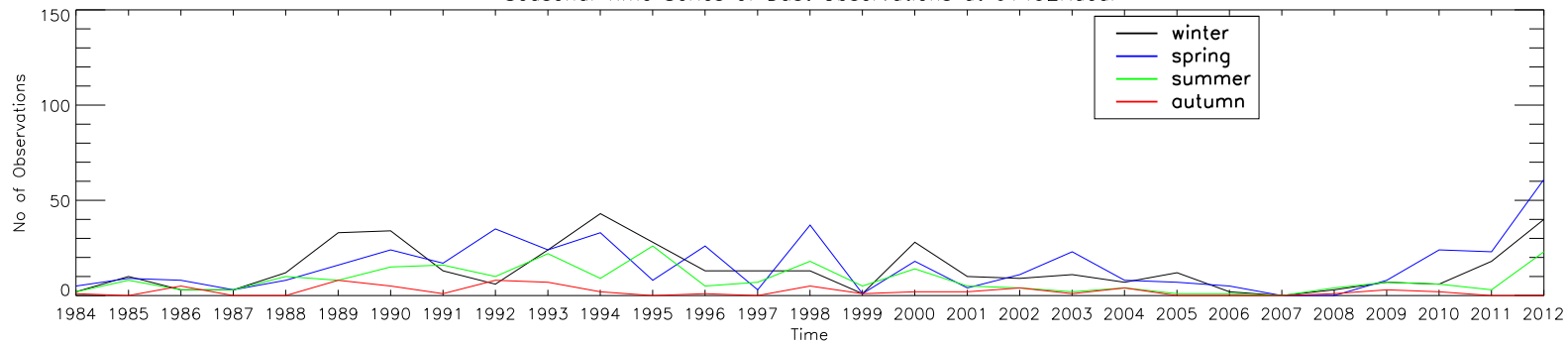
Time Series of All Observations at 61492Kaedi



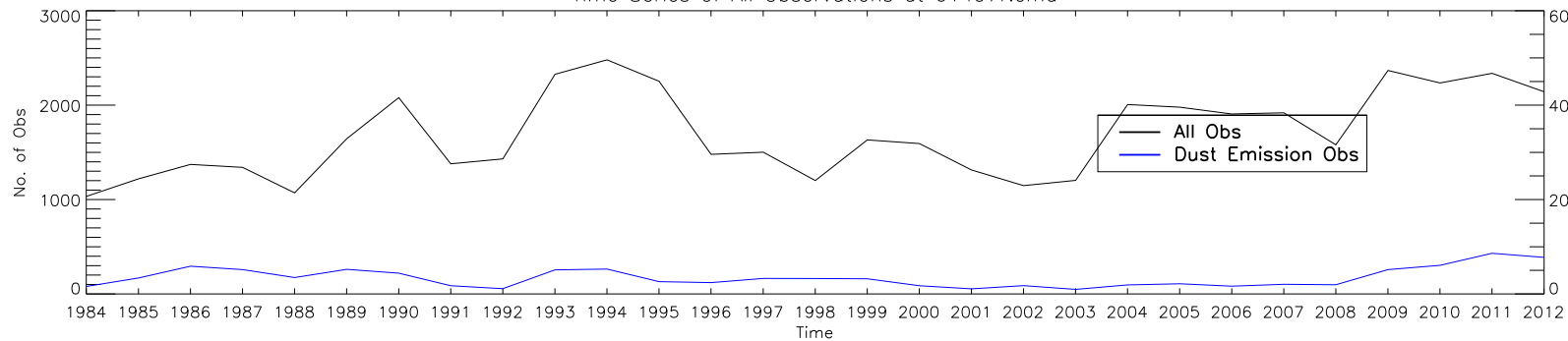
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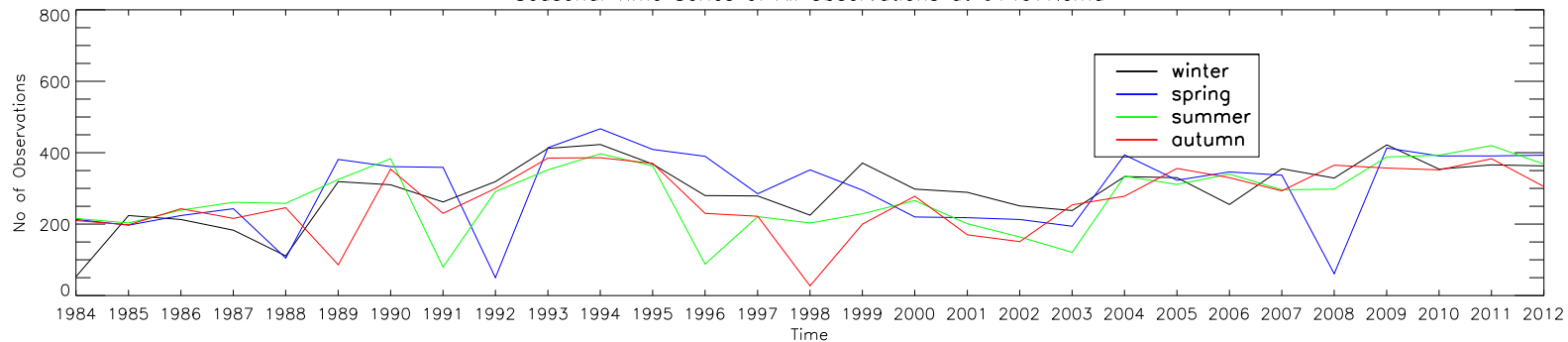
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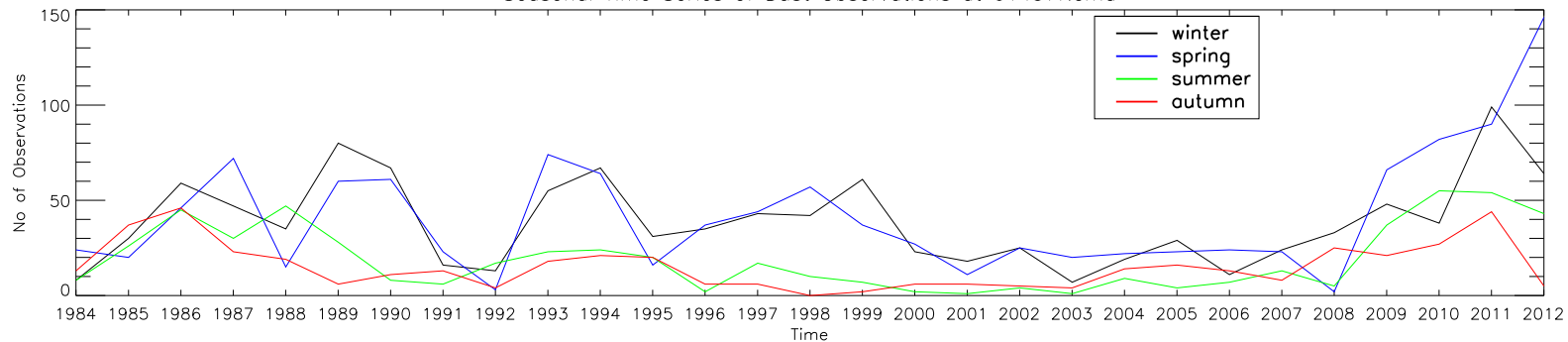
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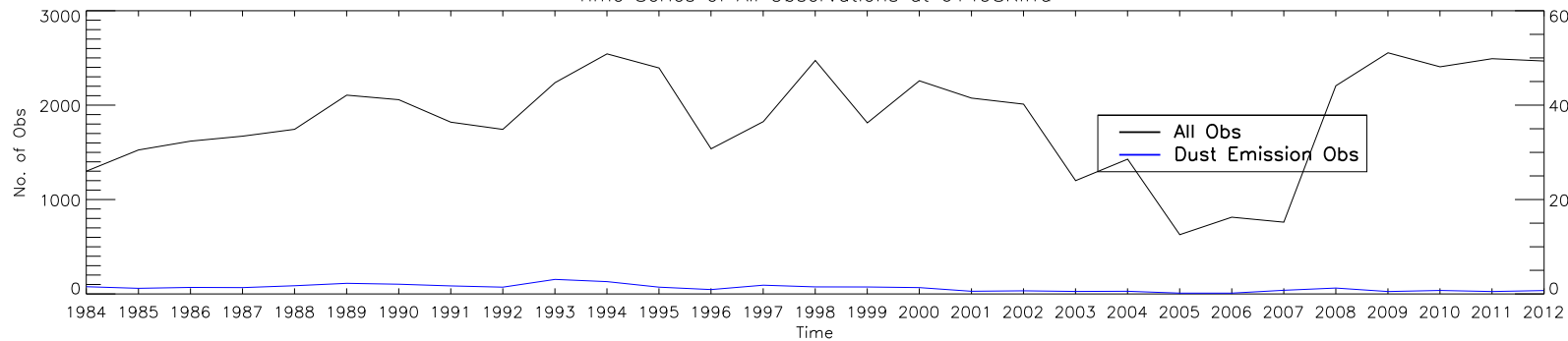
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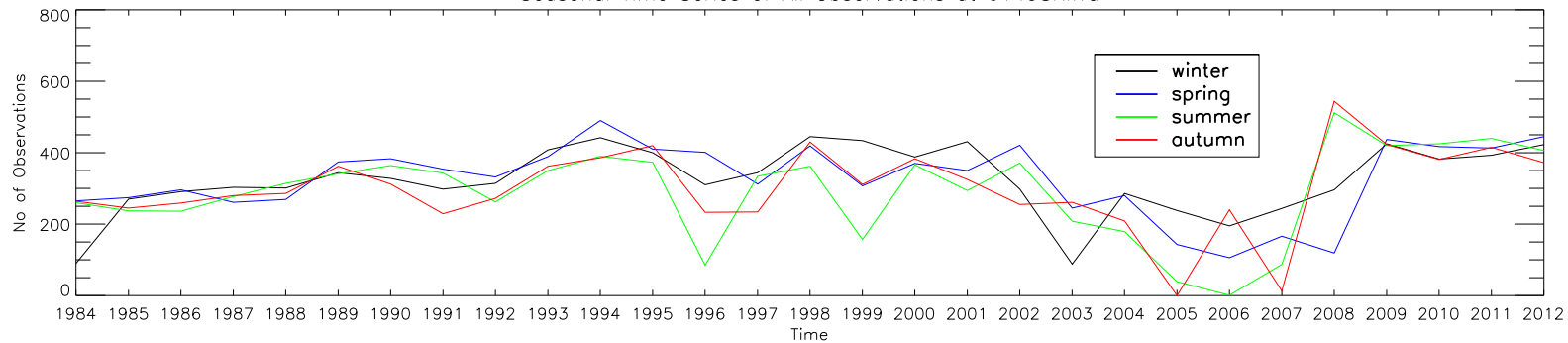
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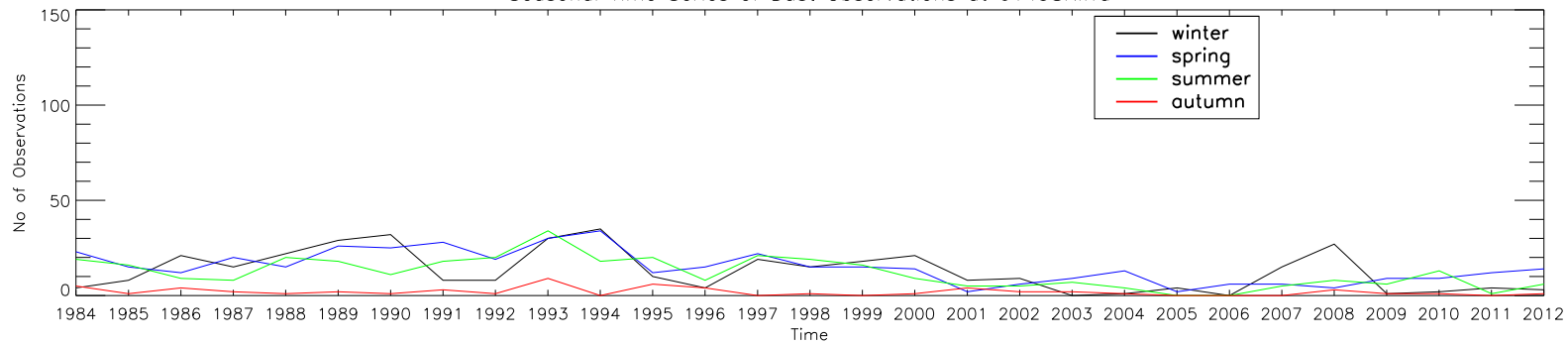
Time Series of All Observations at 61498Kiffa

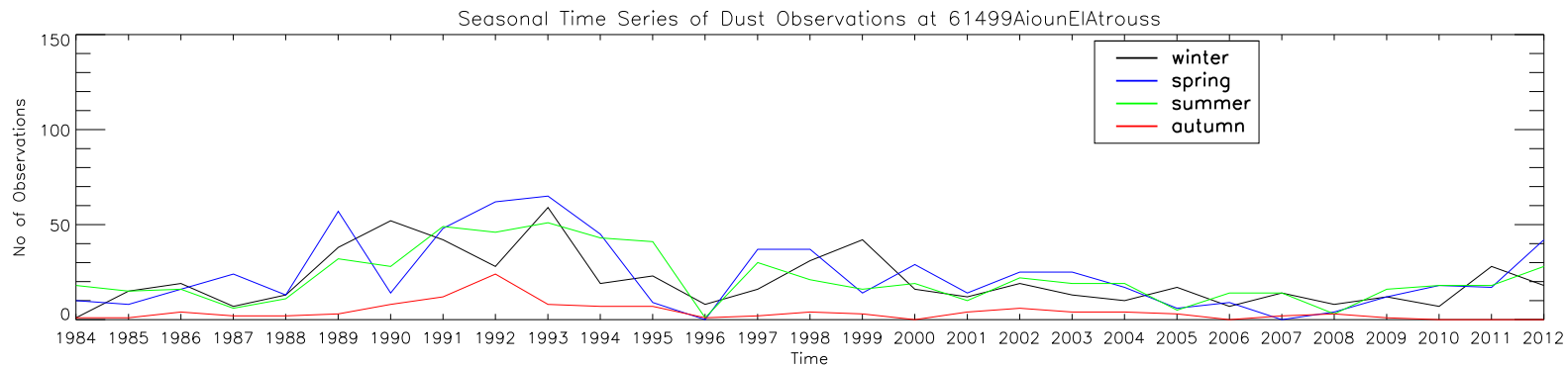
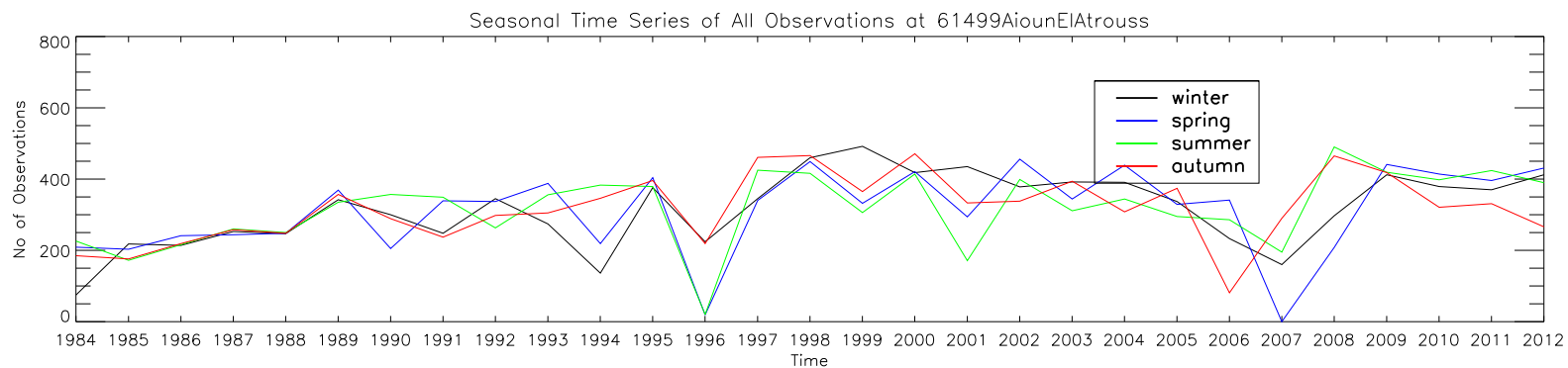
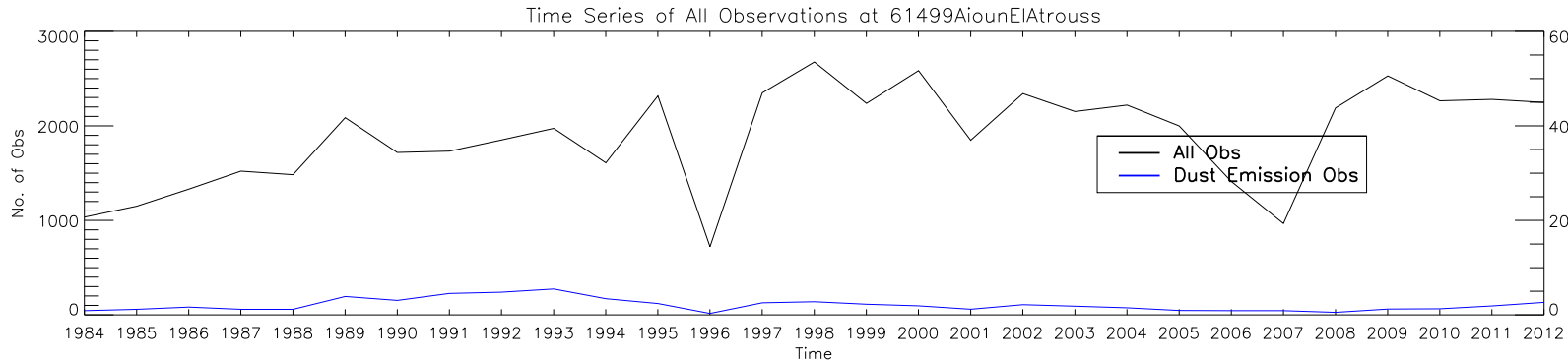


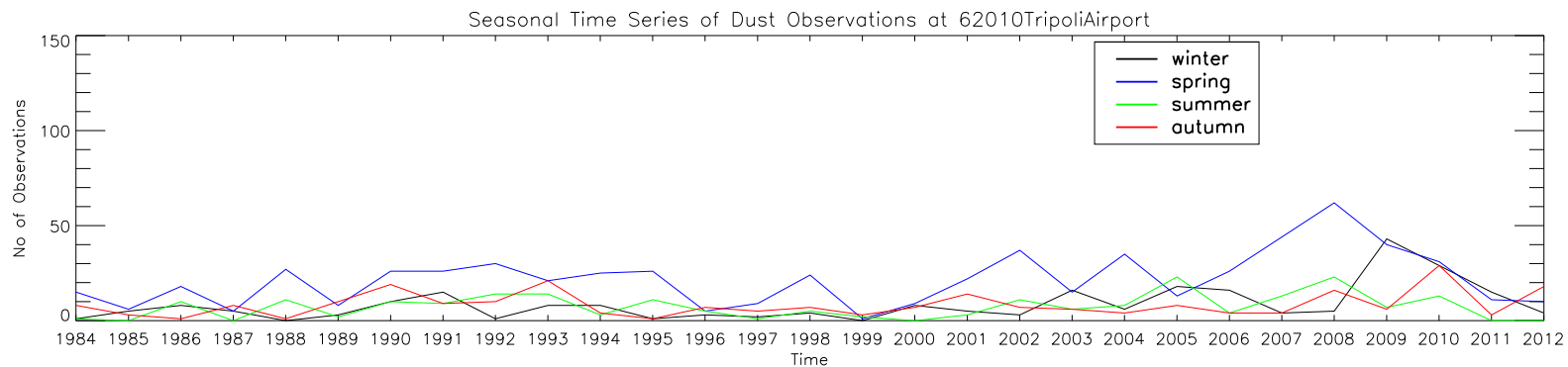
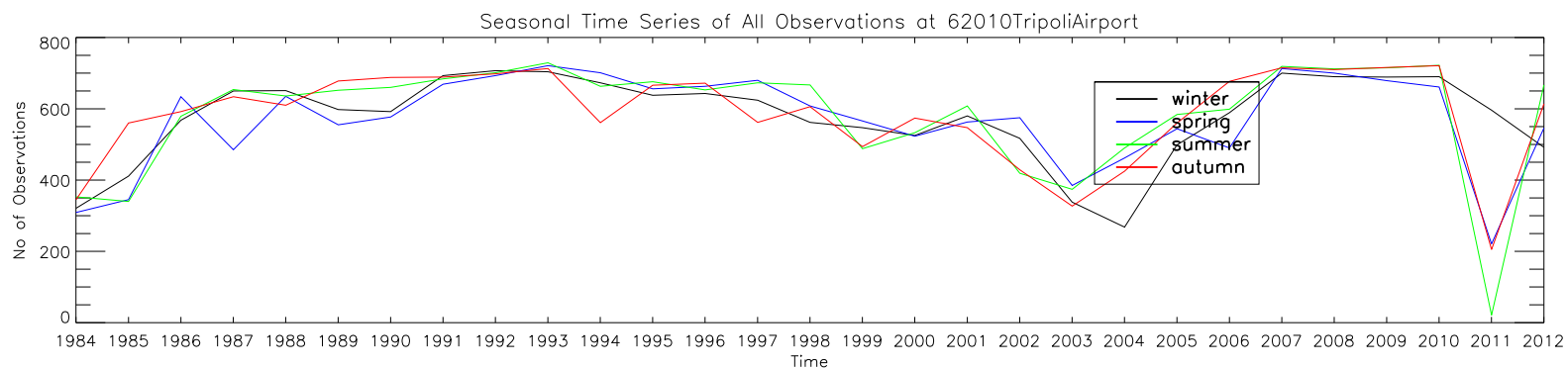
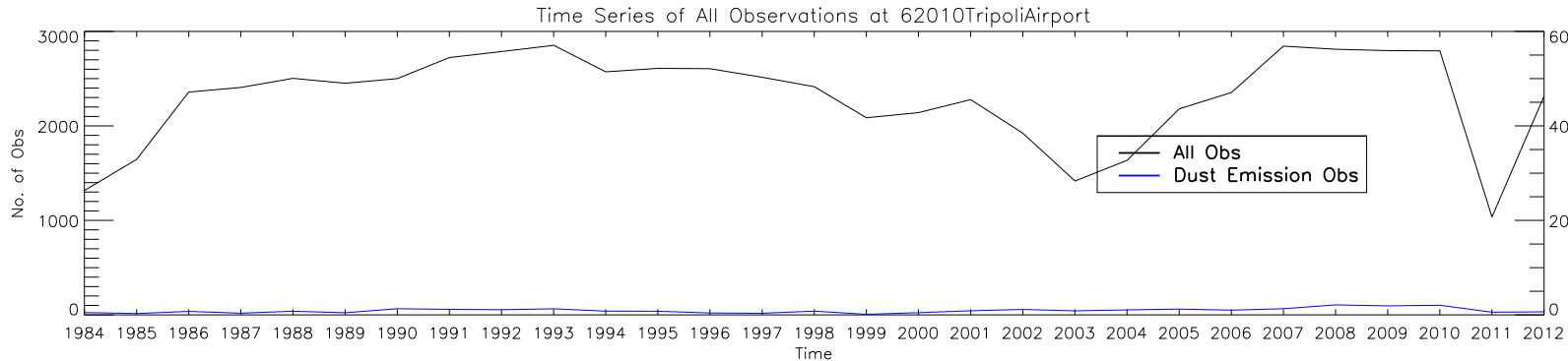
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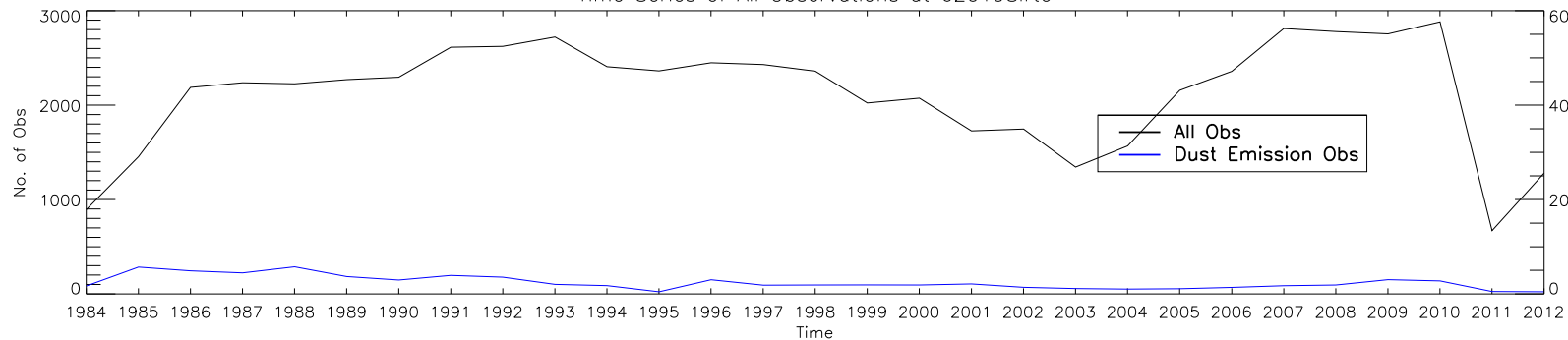
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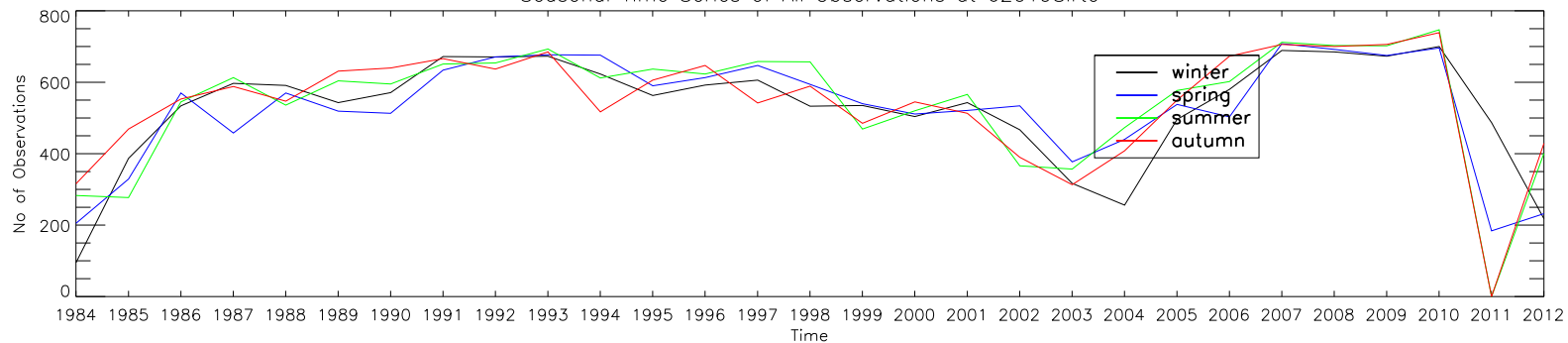




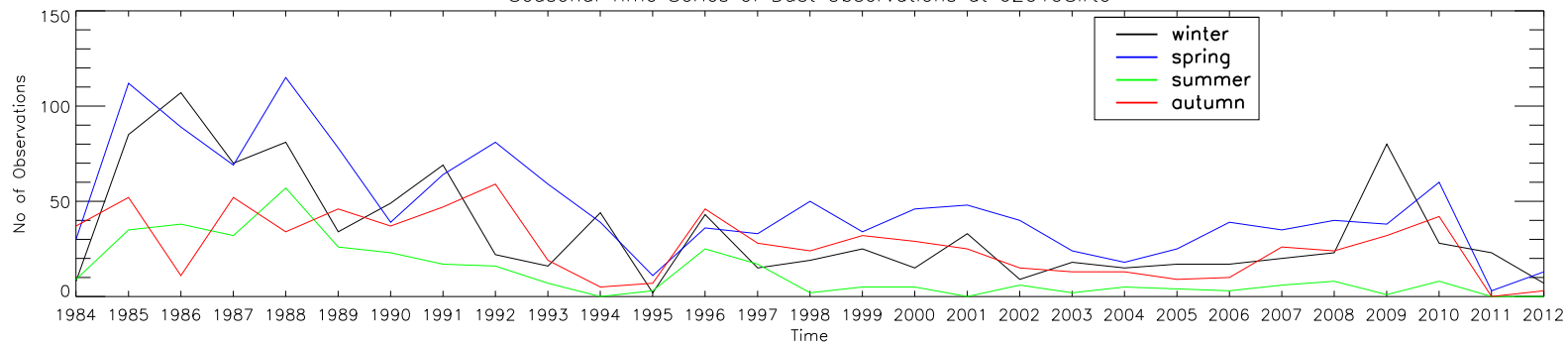
Time Series of All Observations at 62019Sirte



Seasonal Time Series of All Observations at 62019Sirte

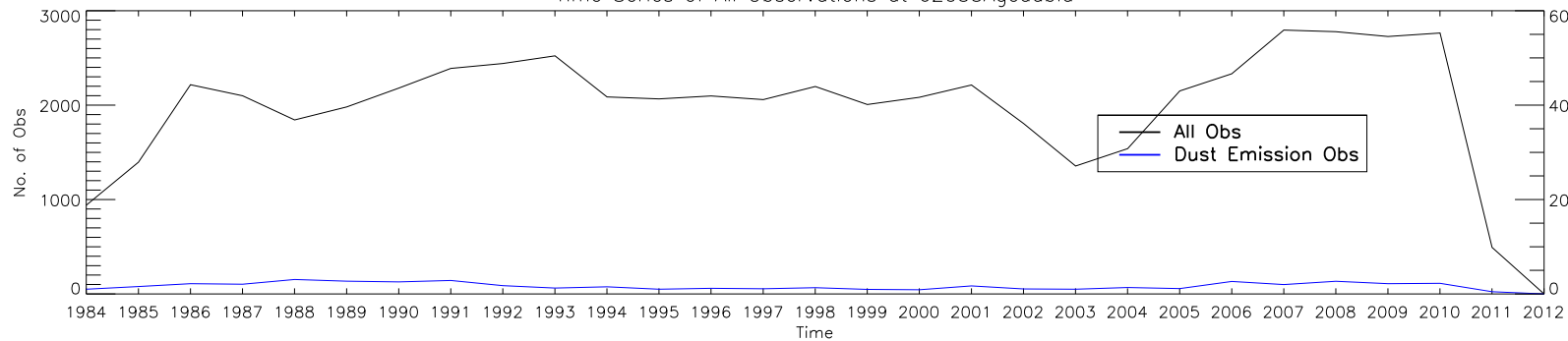


Seasonal Time Series of Dust Observations at 62019Sirte

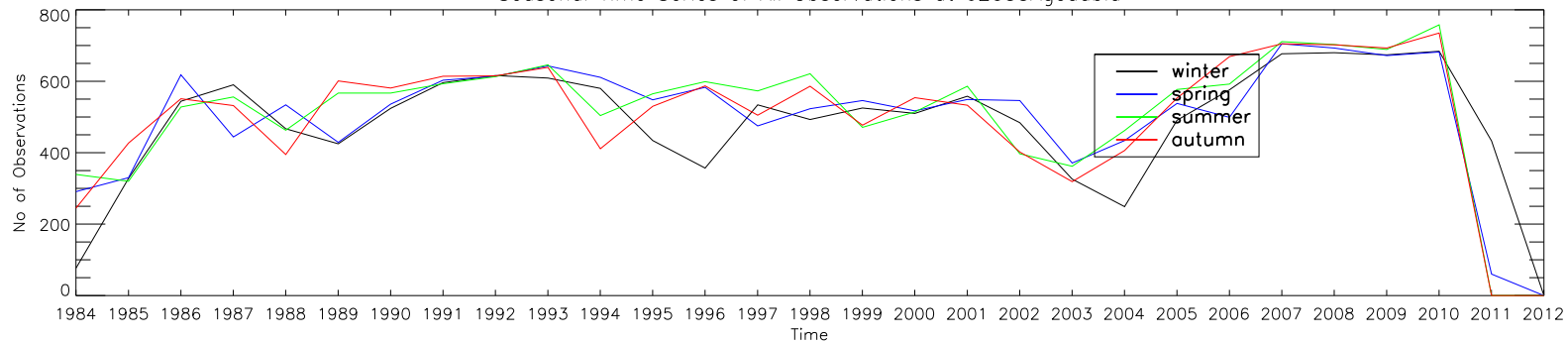




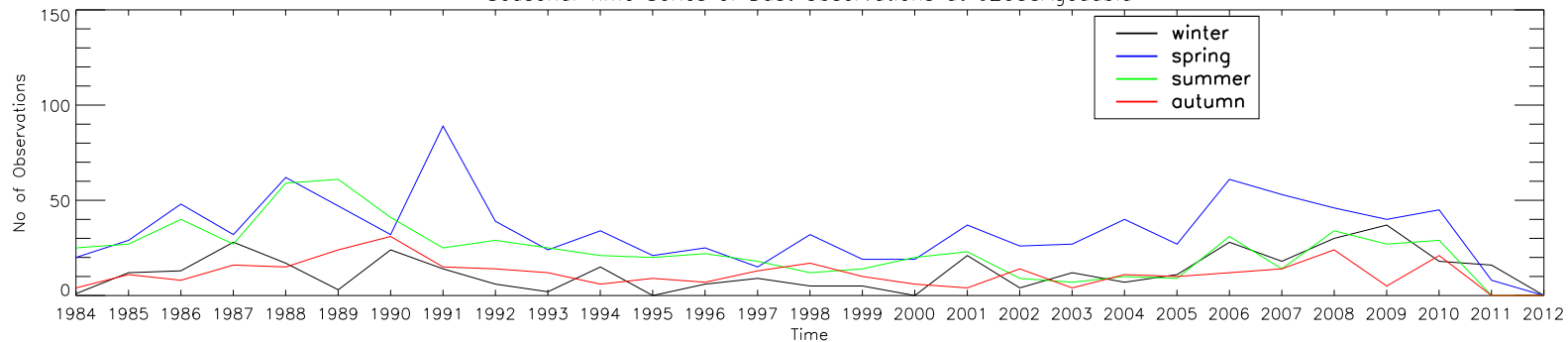
Time Series of All Observations at 62055Agedabia

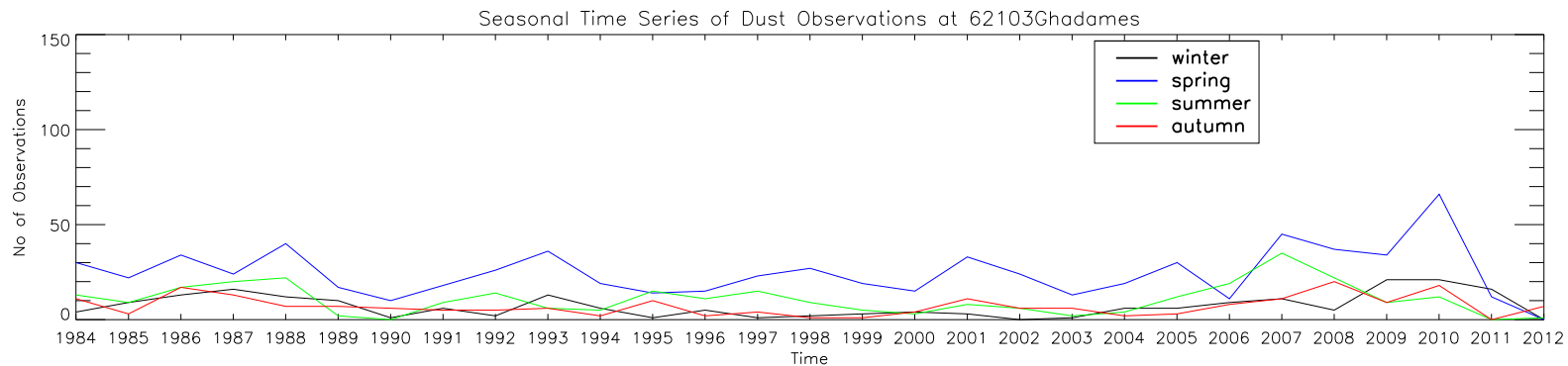
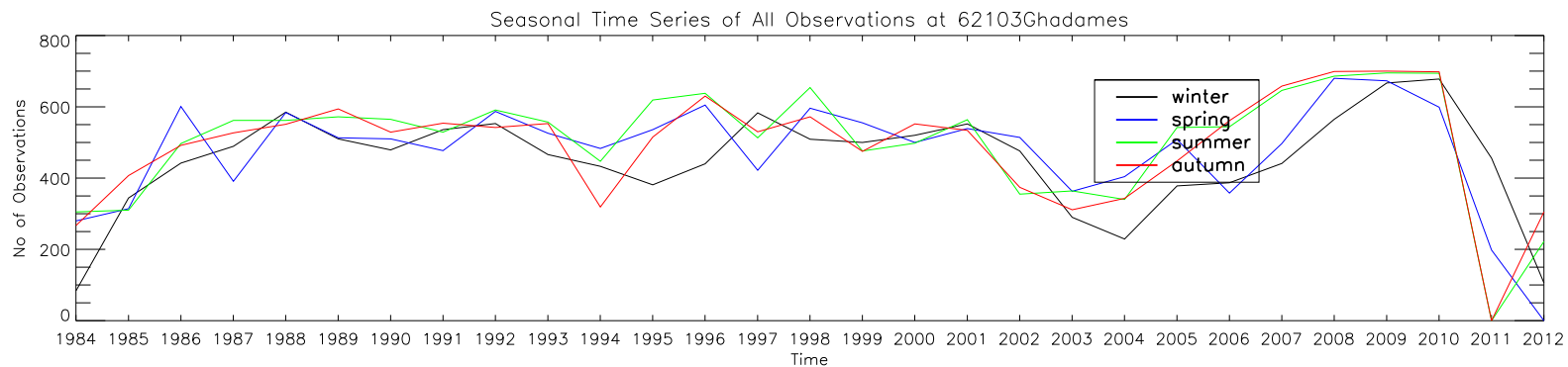
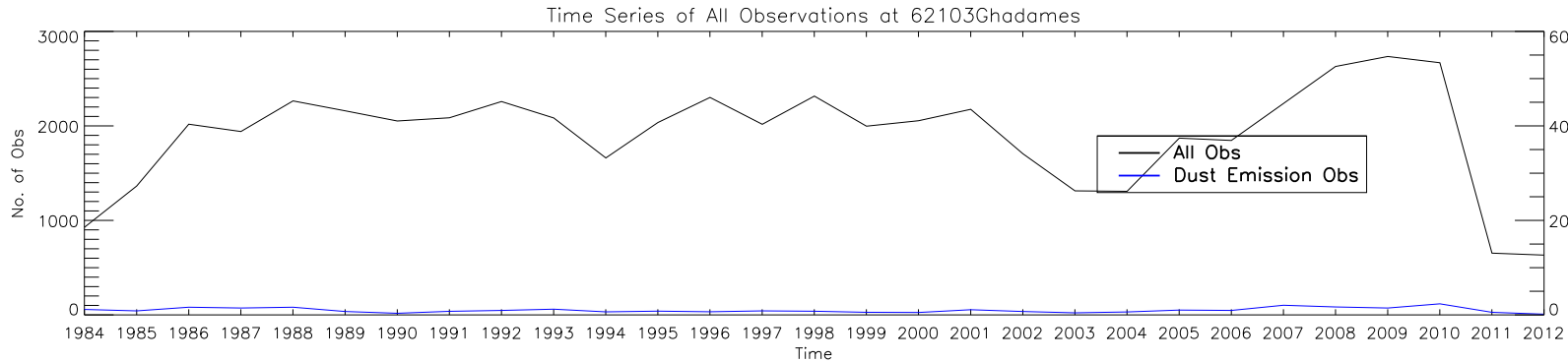


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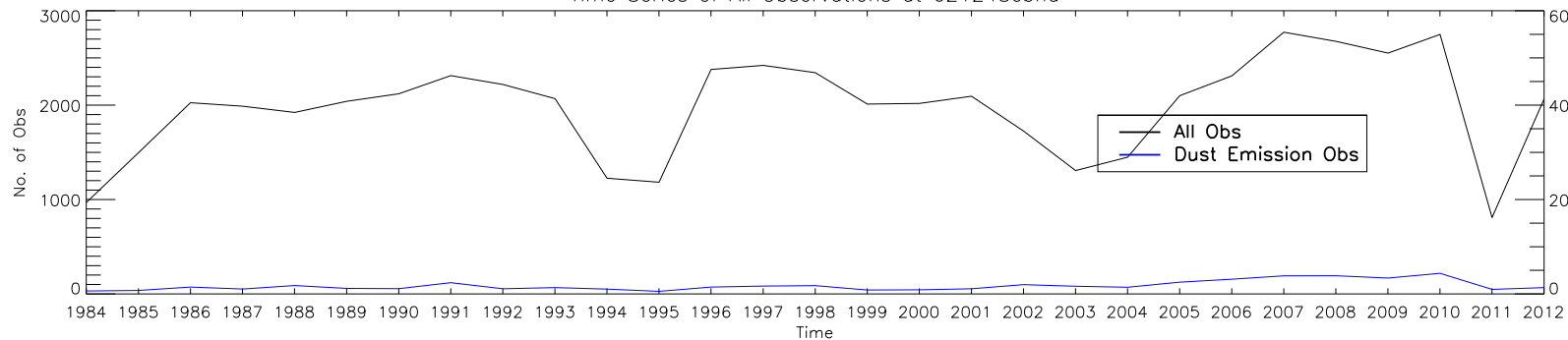


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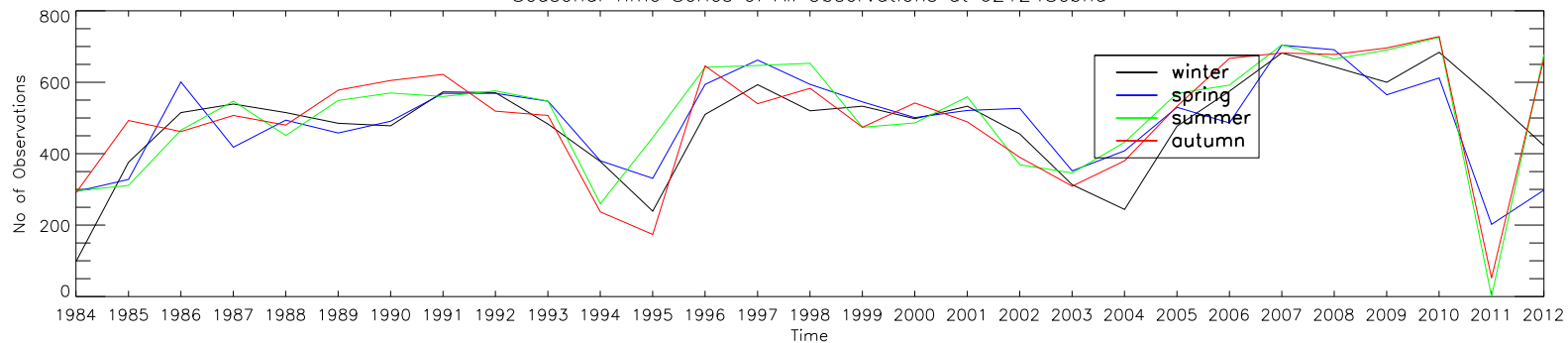




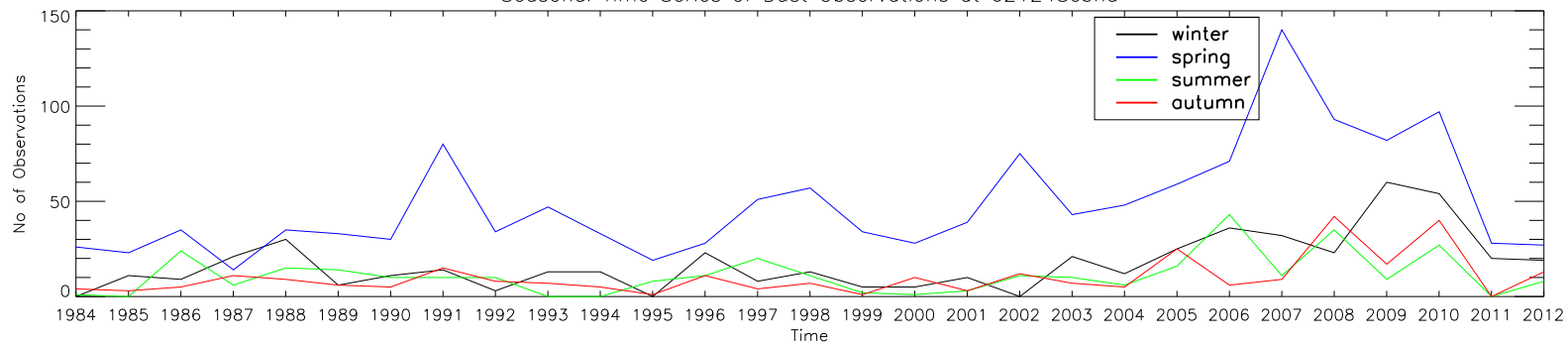
Time Series of All Observations at 62124Sebha



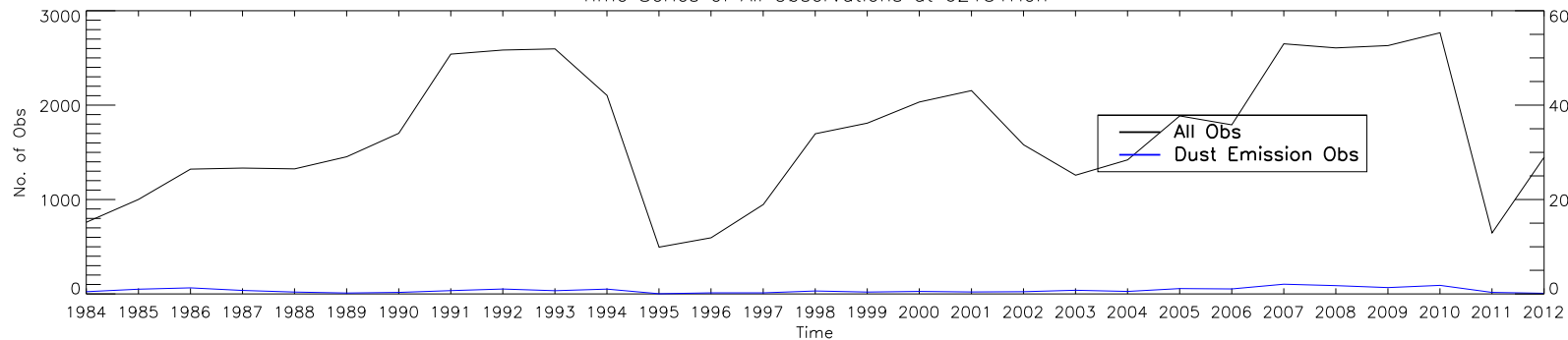
Seasonal Time Series of All Observations at 62124Sebha



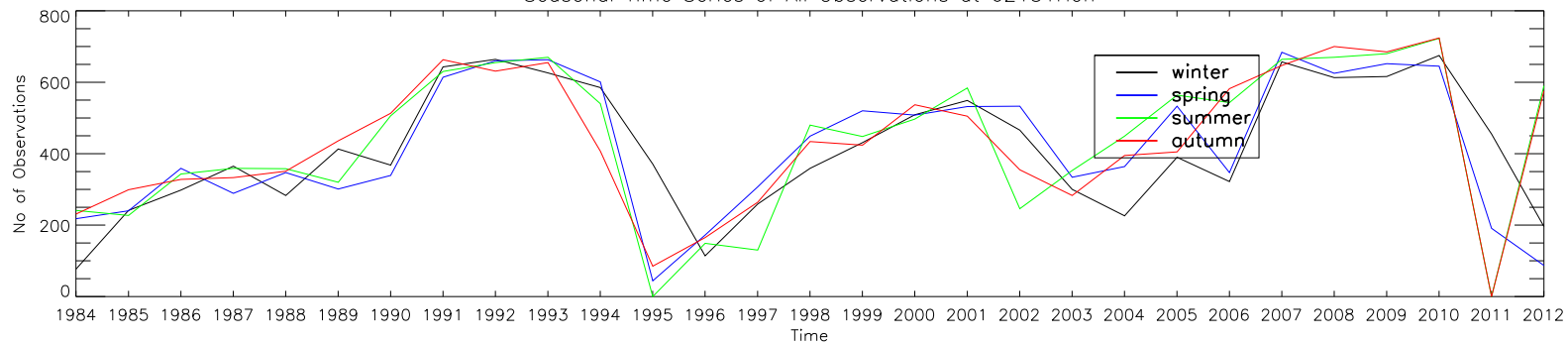
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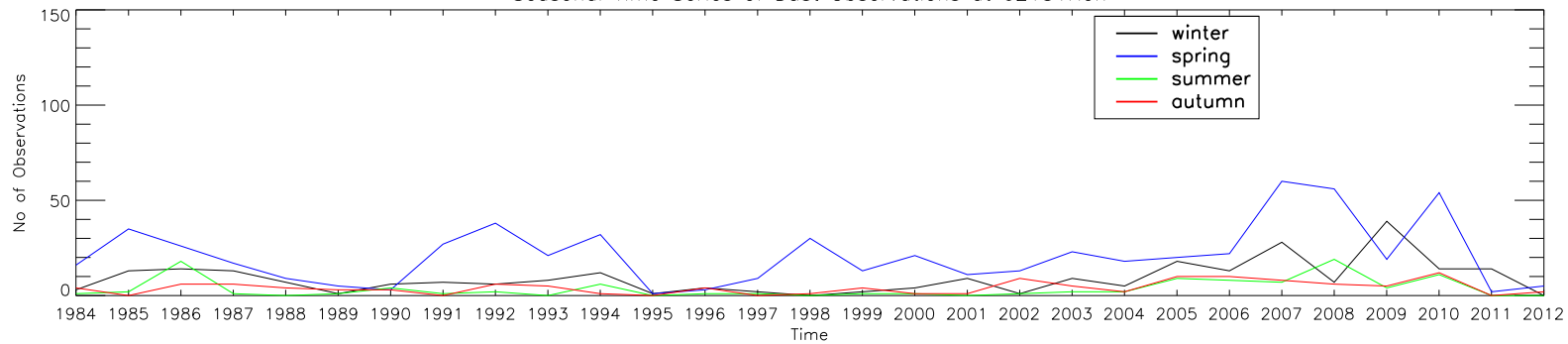
Time Series of All Observations at 62131Hon



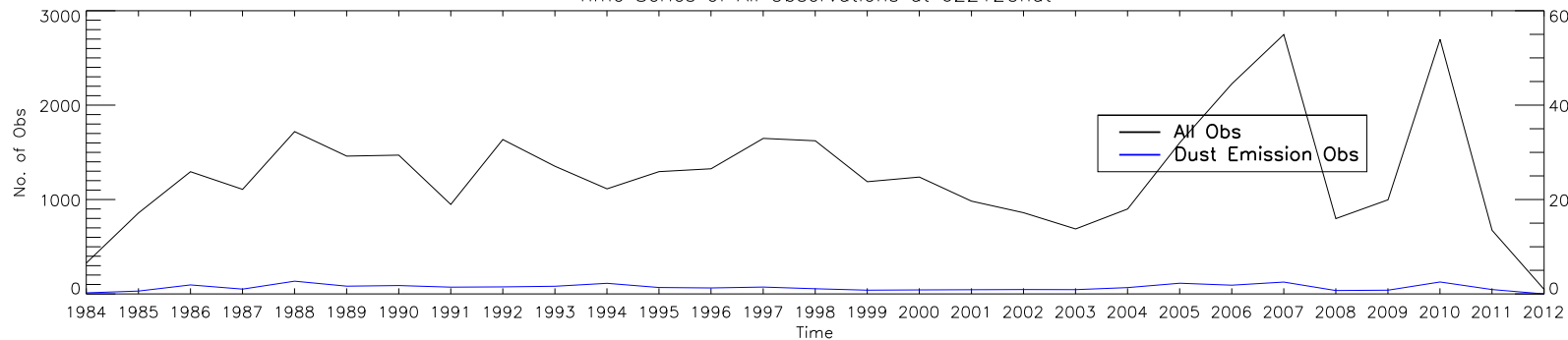
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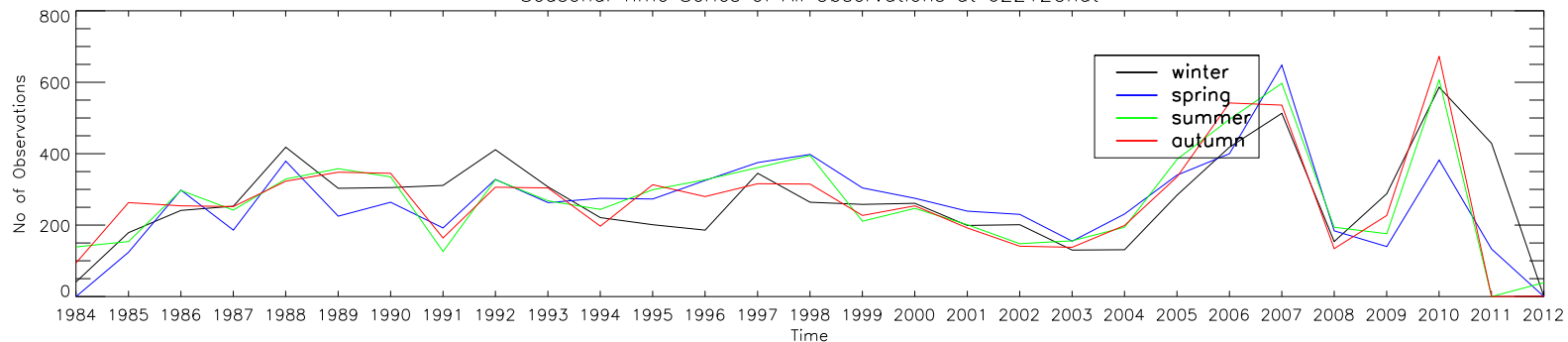
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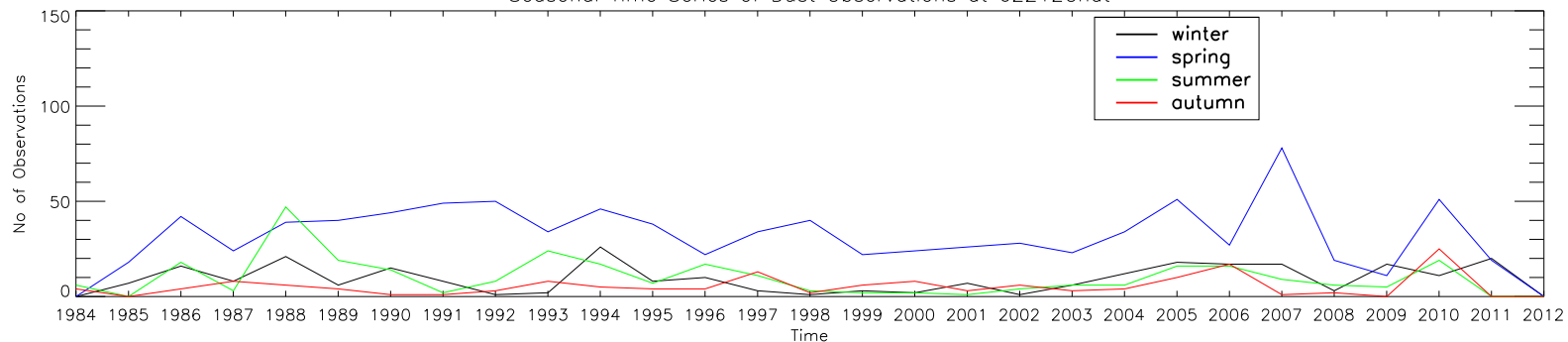
Time Series of All Observations at 62212Ghat



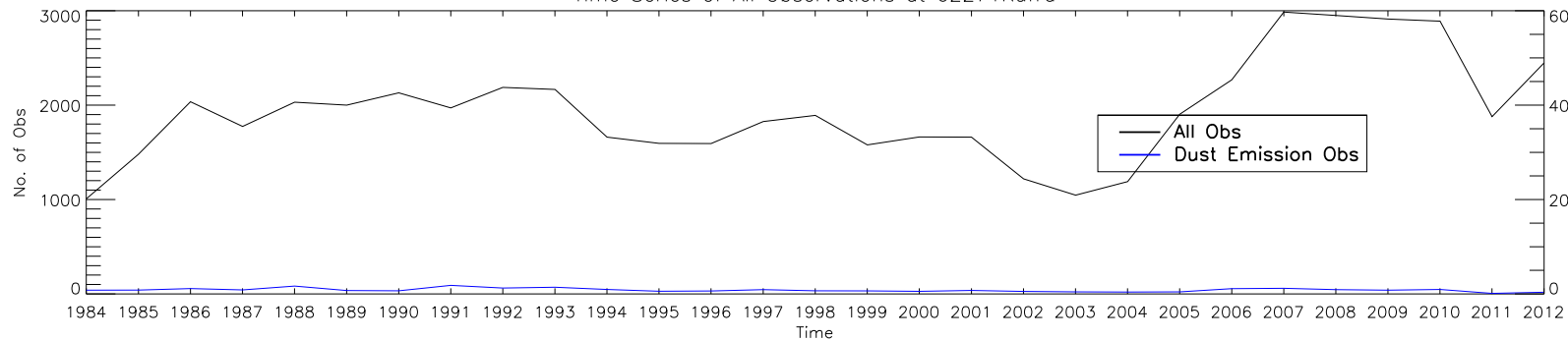
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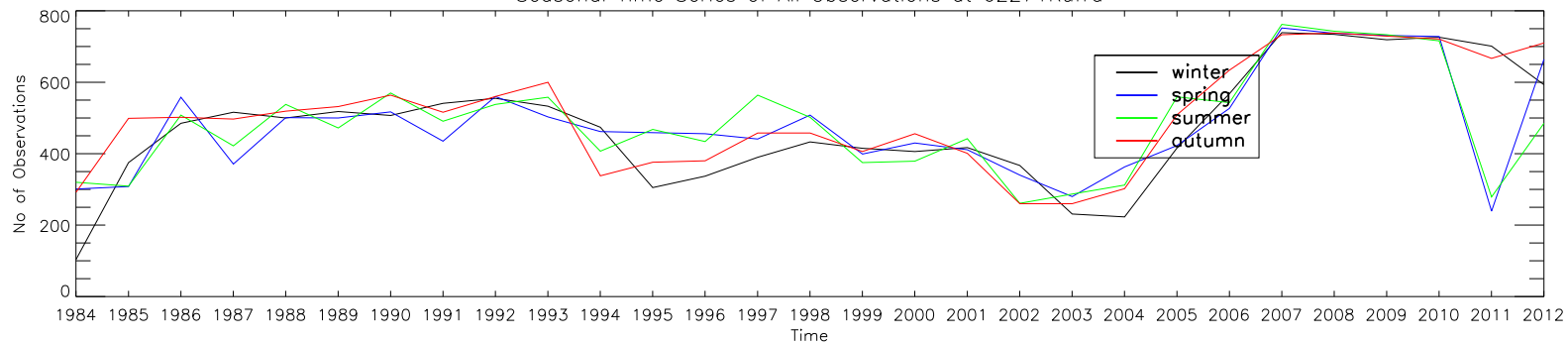
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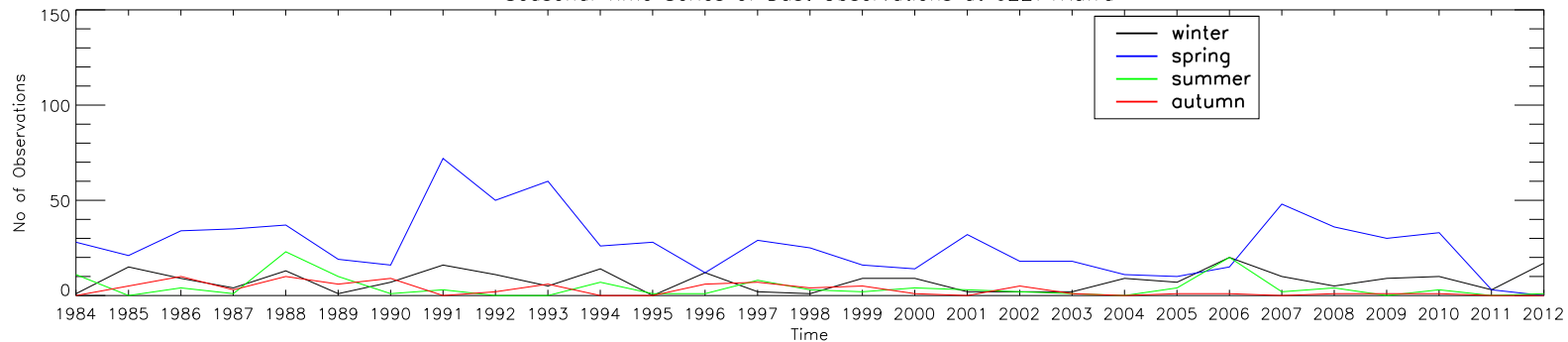
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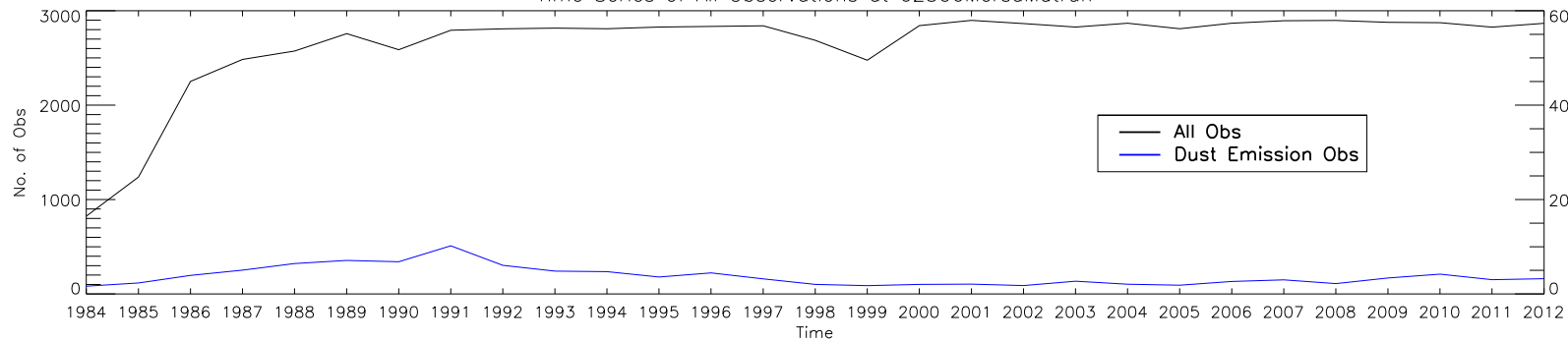
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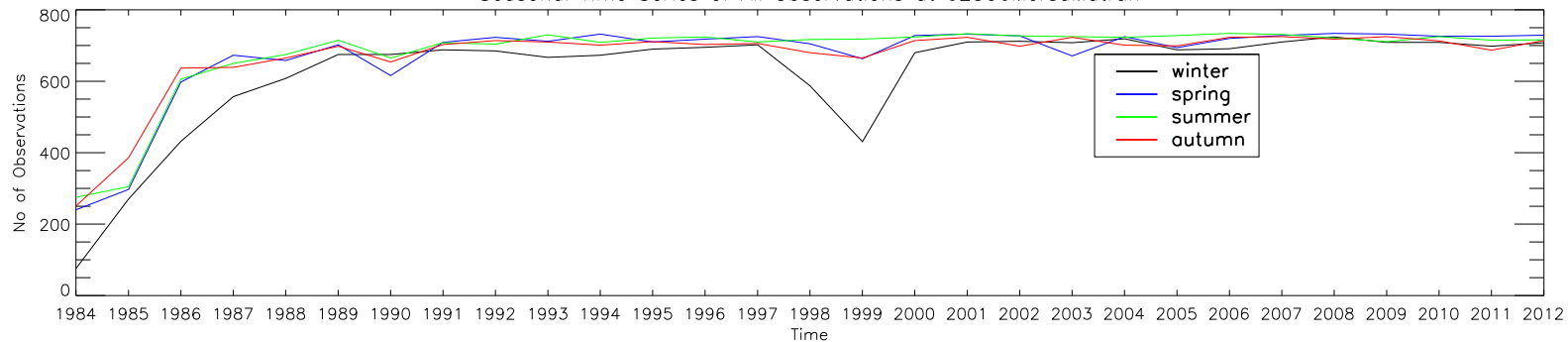
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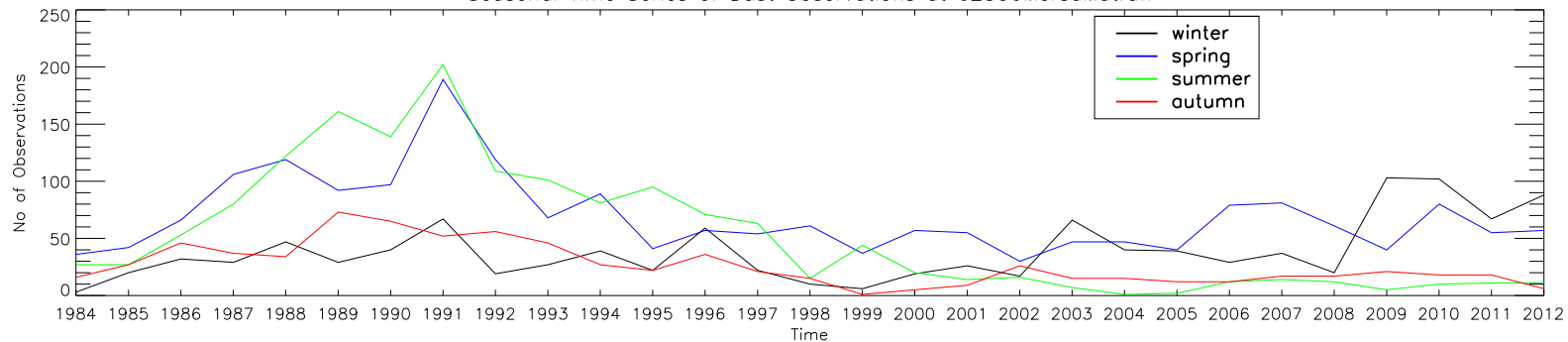
Time Series of All Observations at 62306MersaMatruh



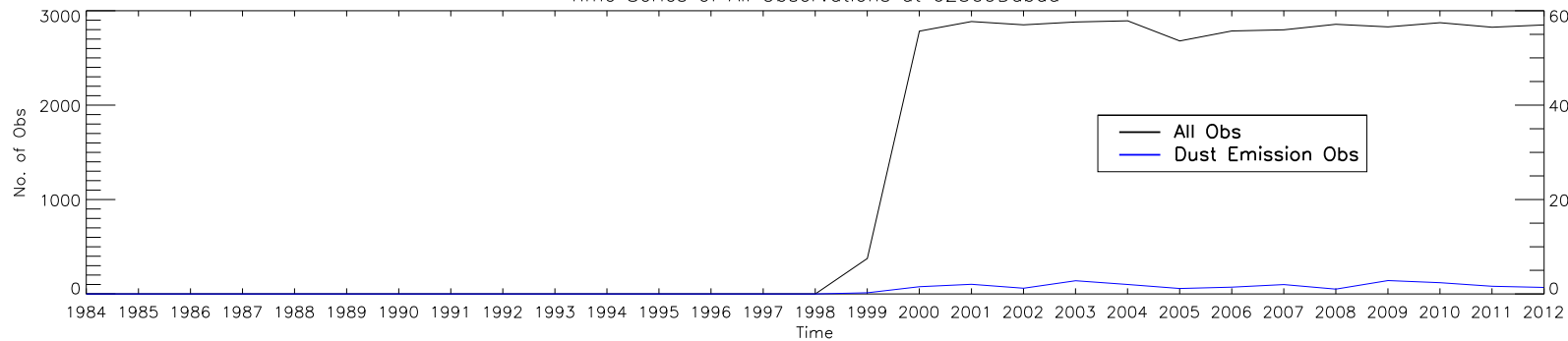
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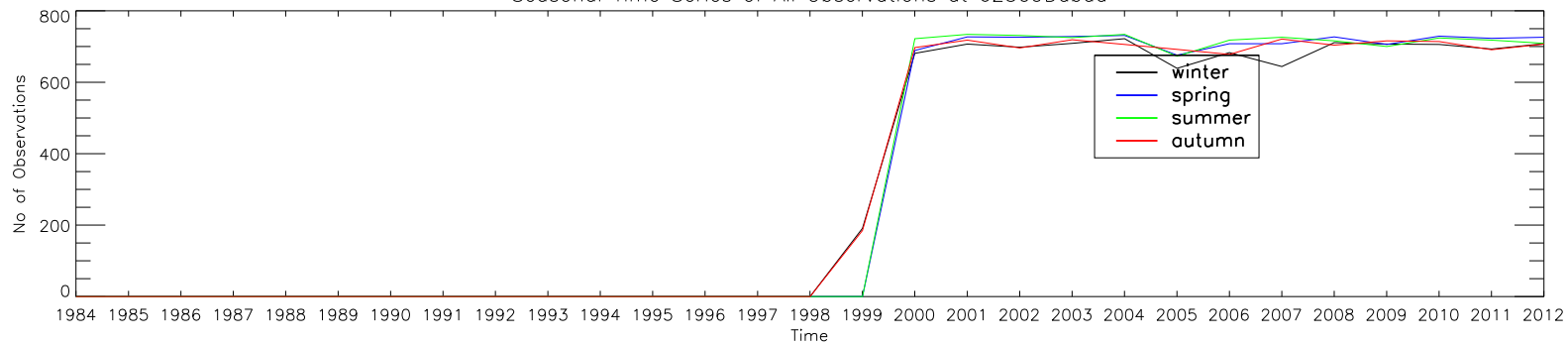
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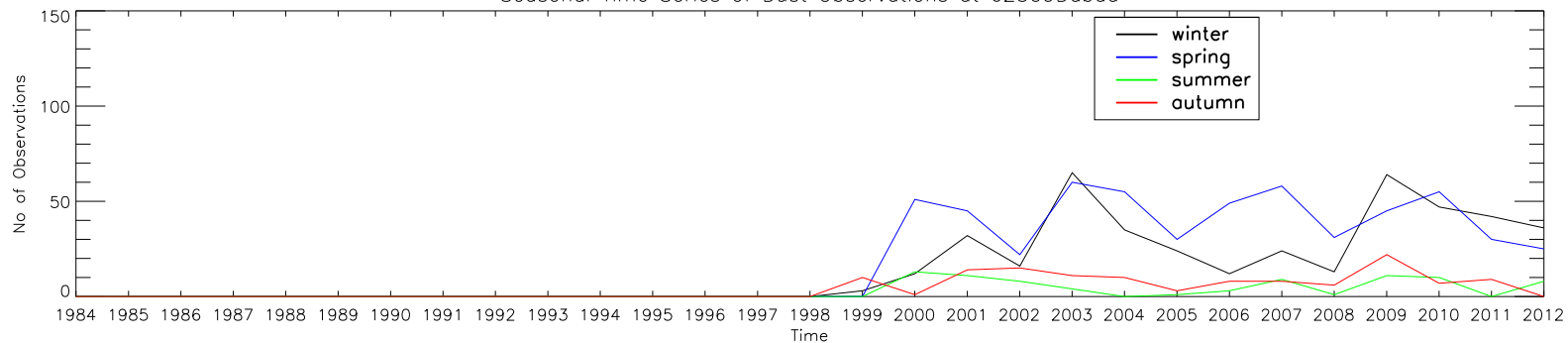
Time Series of All Observations at 62309Dabaa



Seasonal Time Series of All Observations at 62309Dabaa

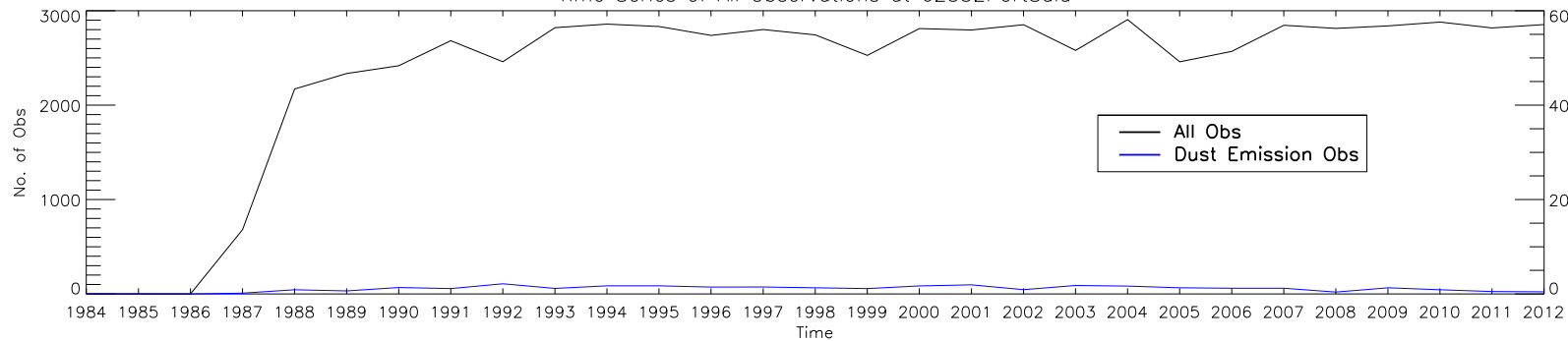


Seasonal Time Series of Dust Observations at 62309Dabaa

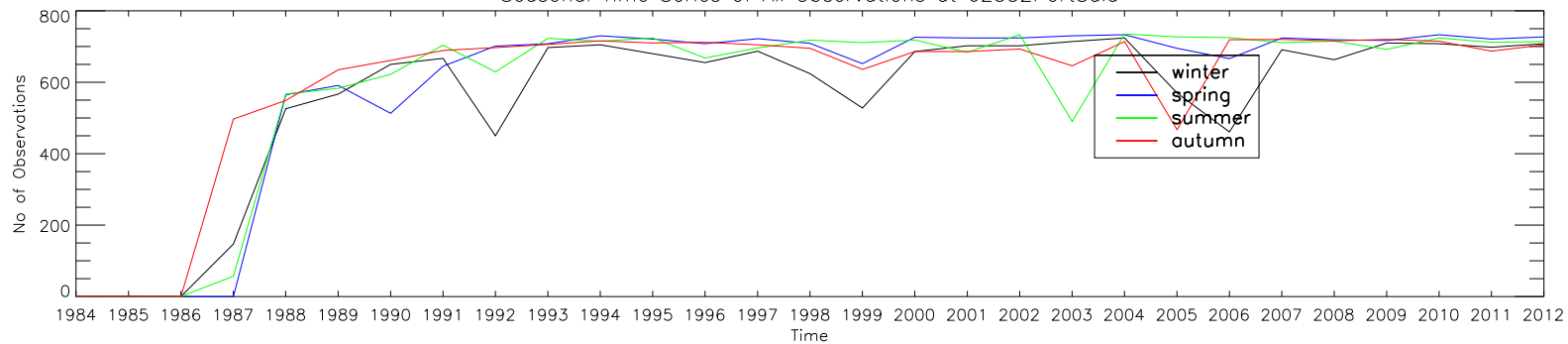




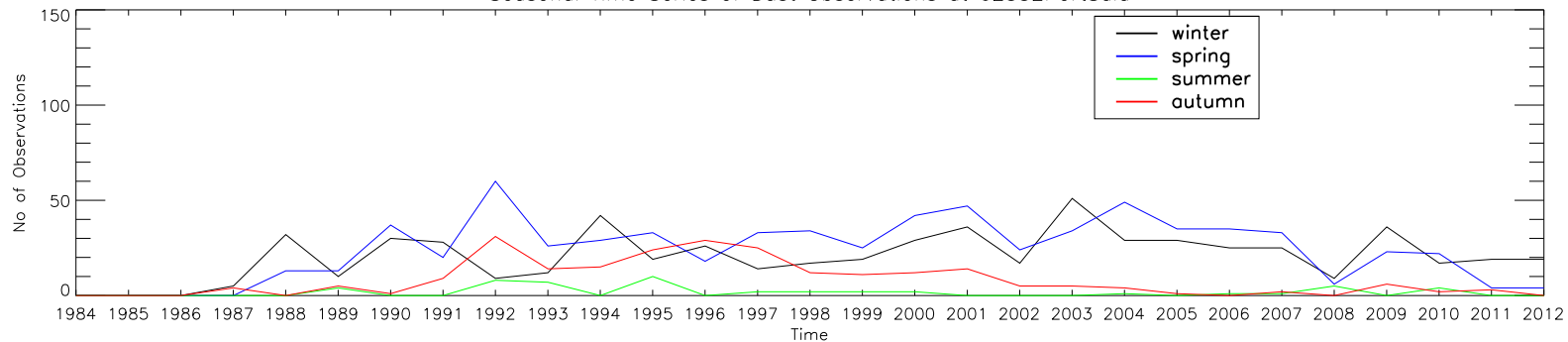
Time Series of All Observations at 62332PortSaid



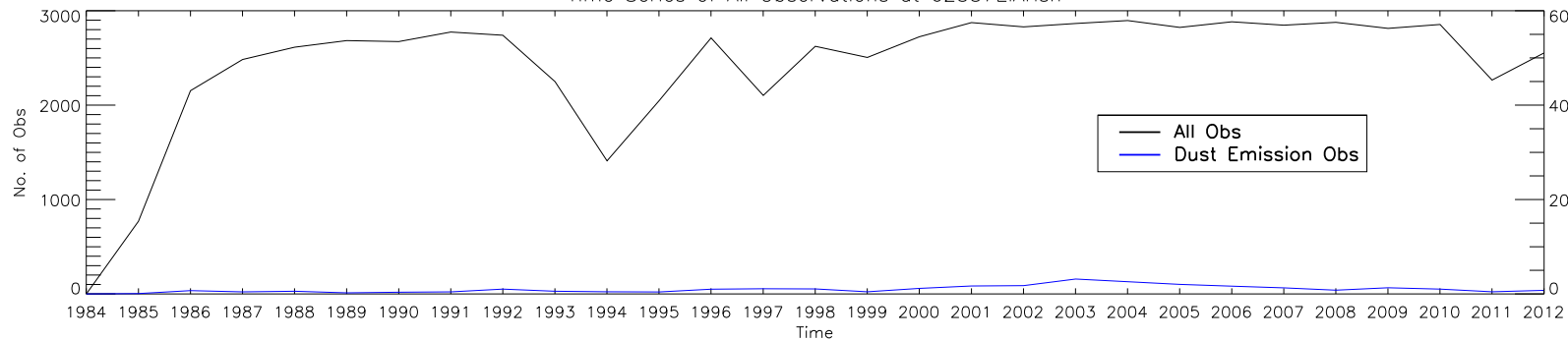
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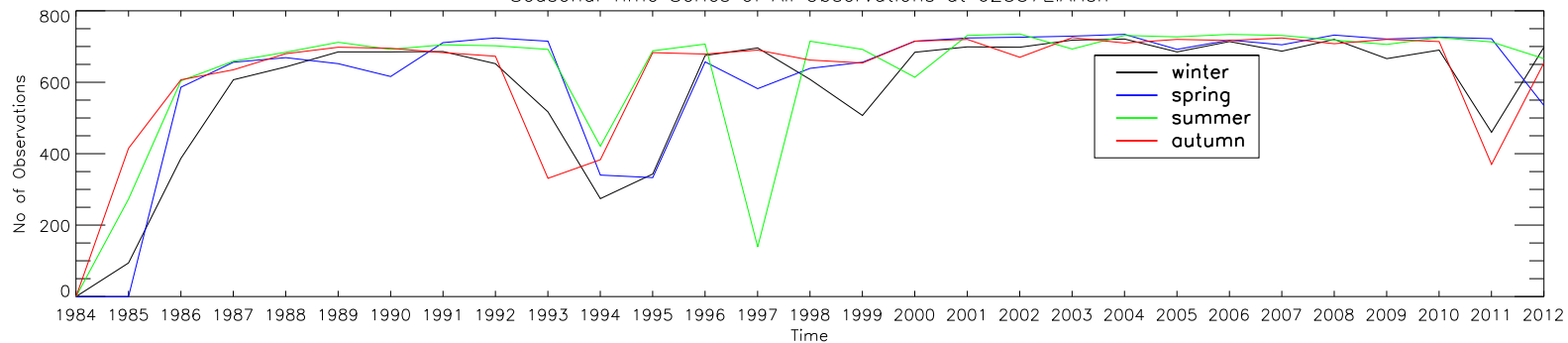
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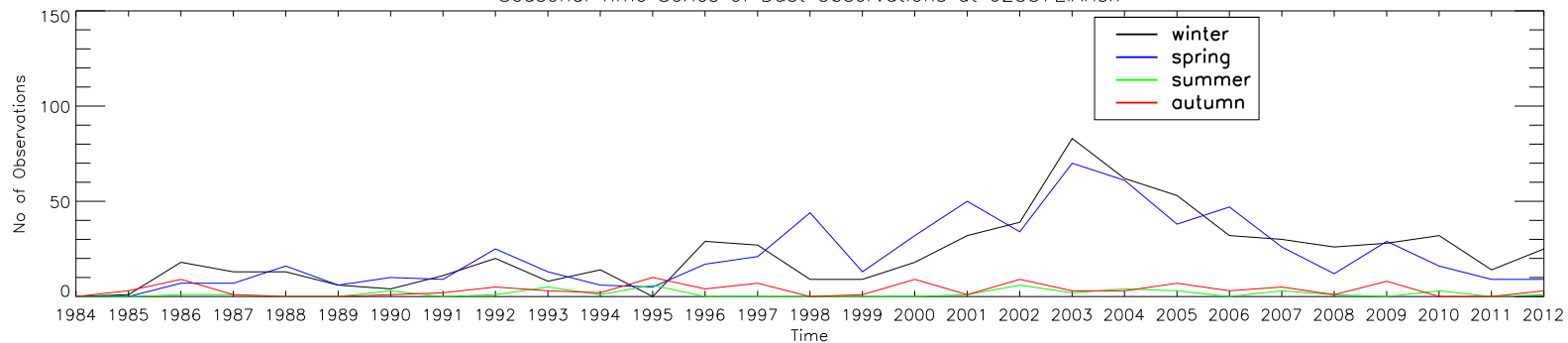
Time Series of All Observations at 62337ElArish



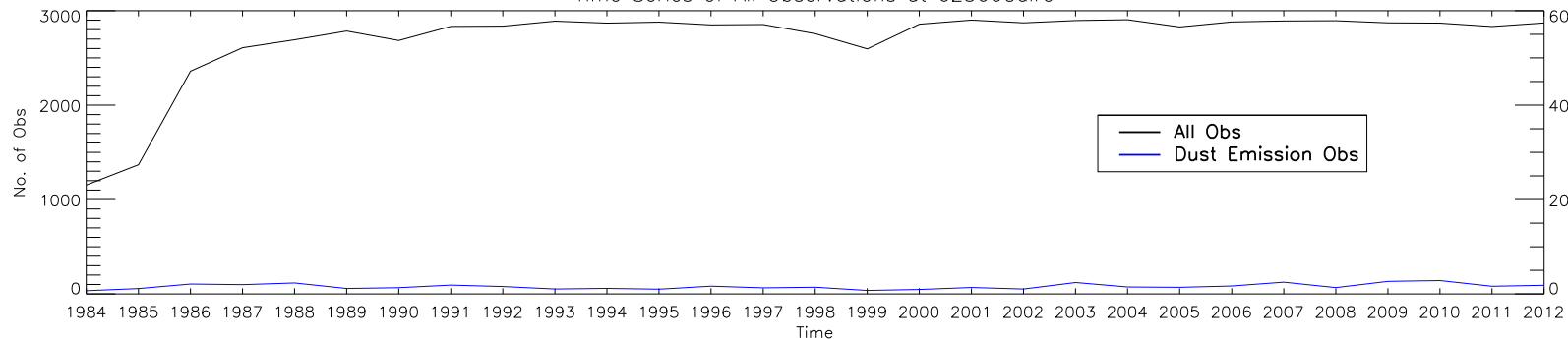
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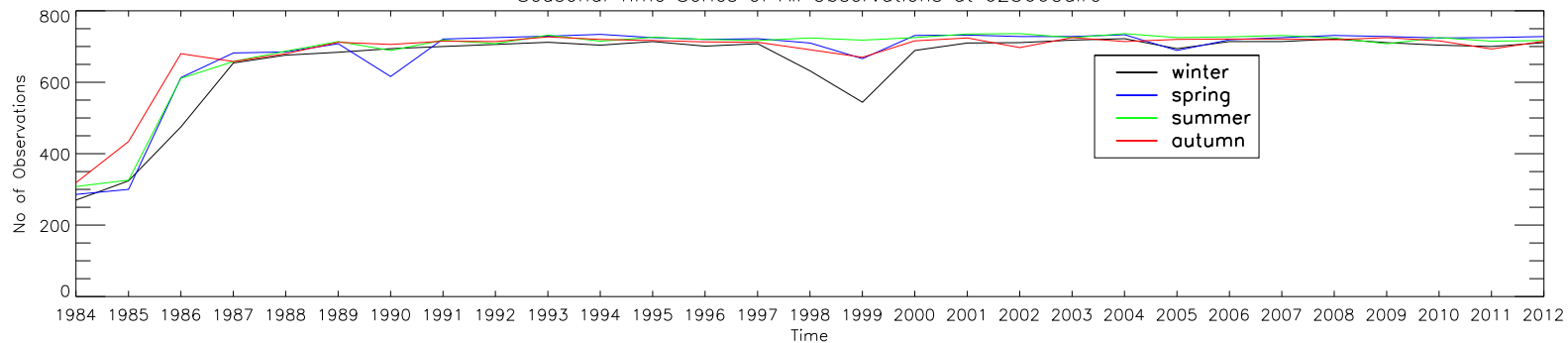
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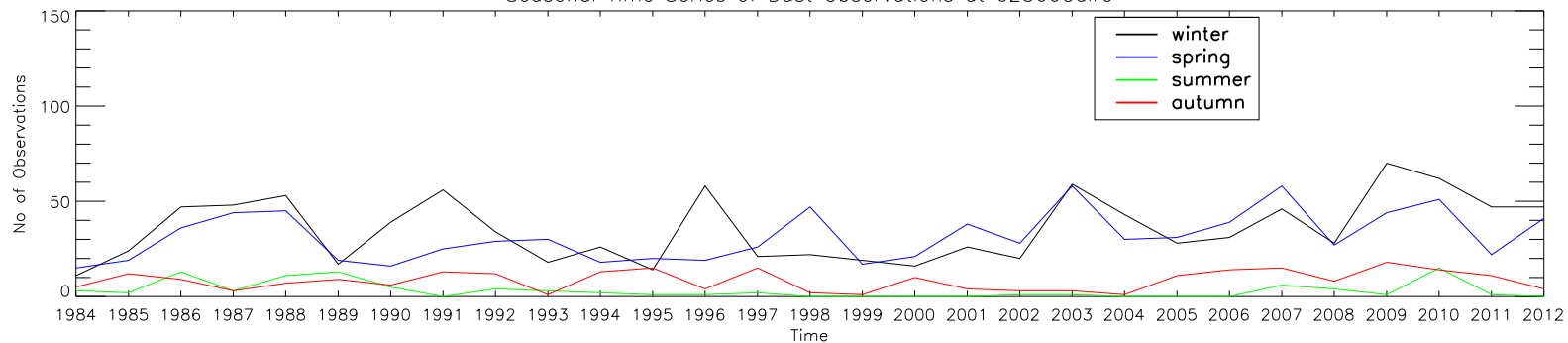
Time Series of All Observations at 62366Cairo



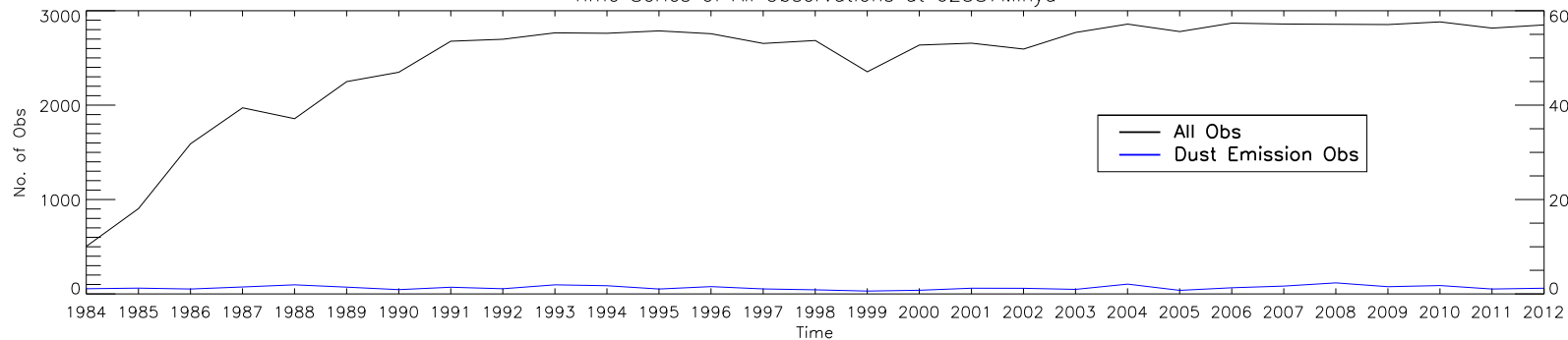
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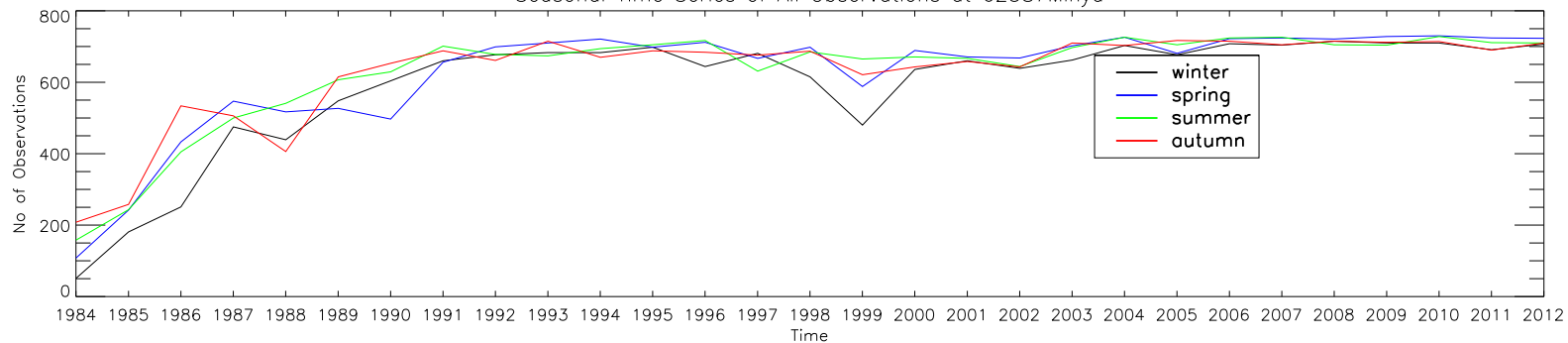
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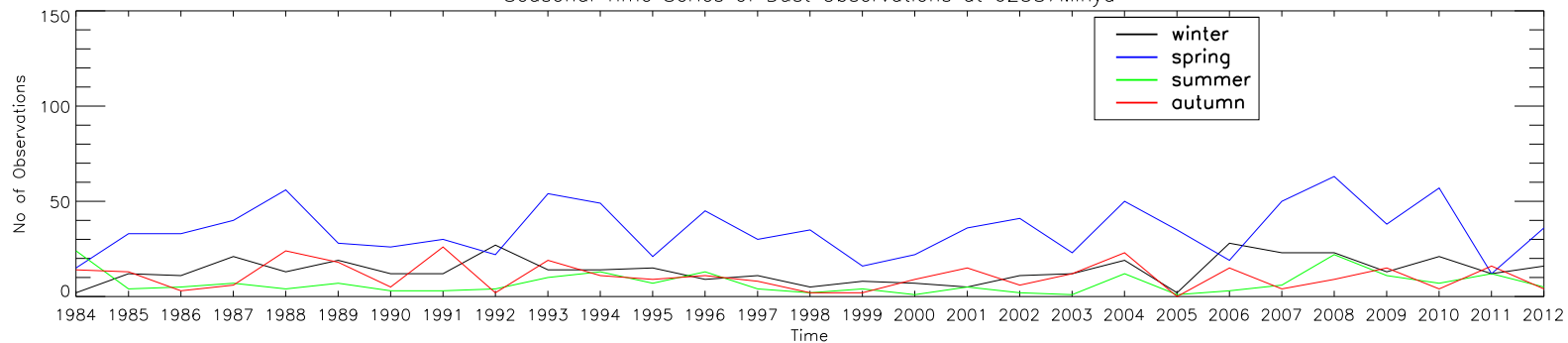
Time Series of All Observations at 62387Minya



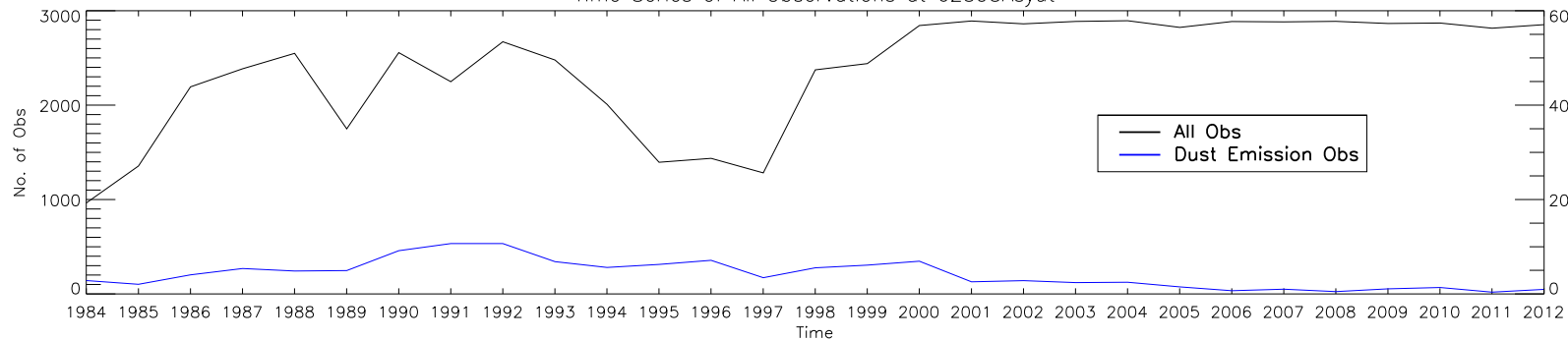
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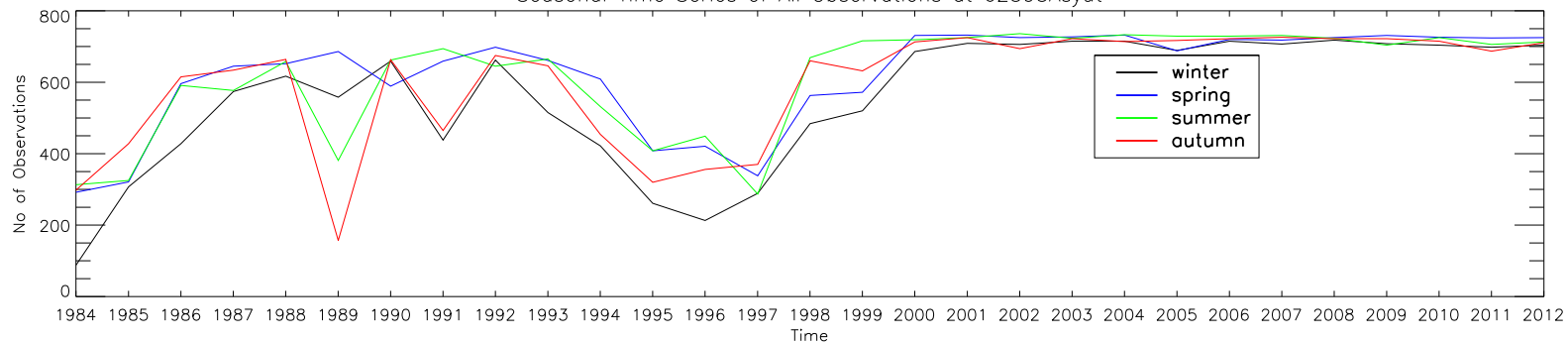
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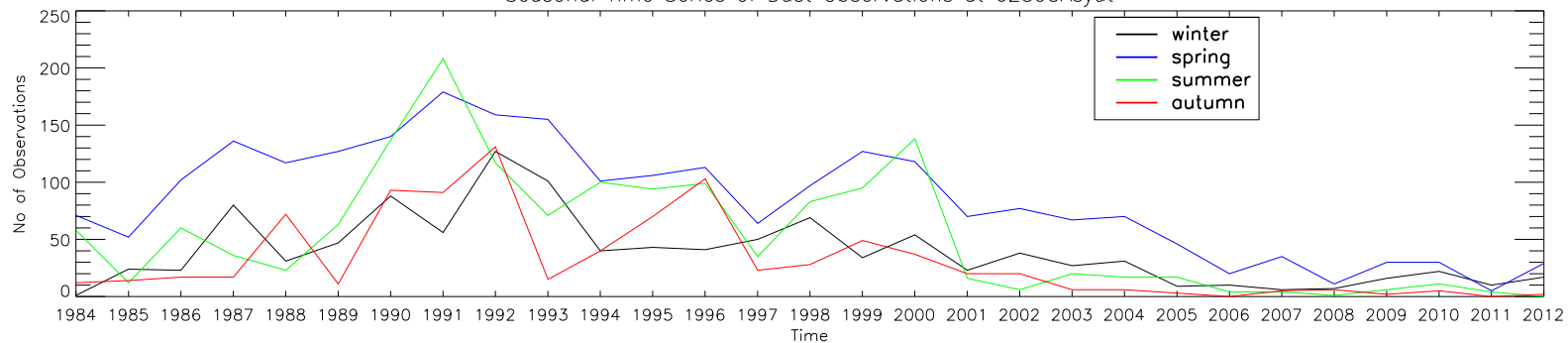
Time Series of All Observations at 62393Asyut



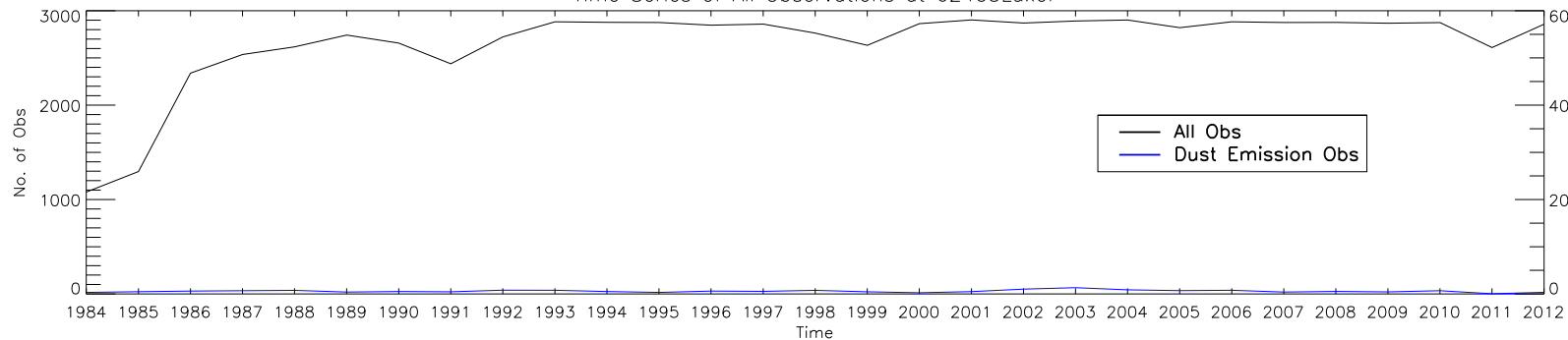
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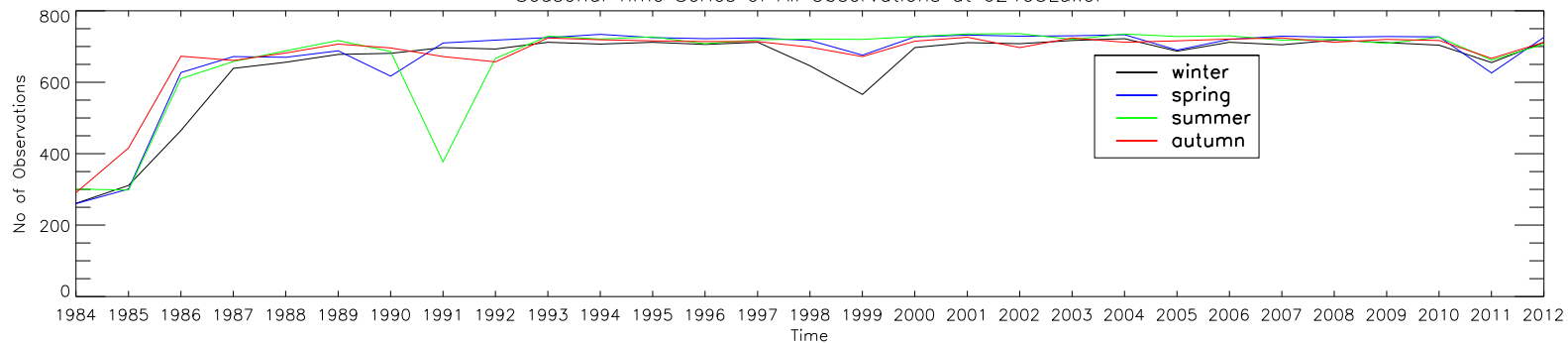
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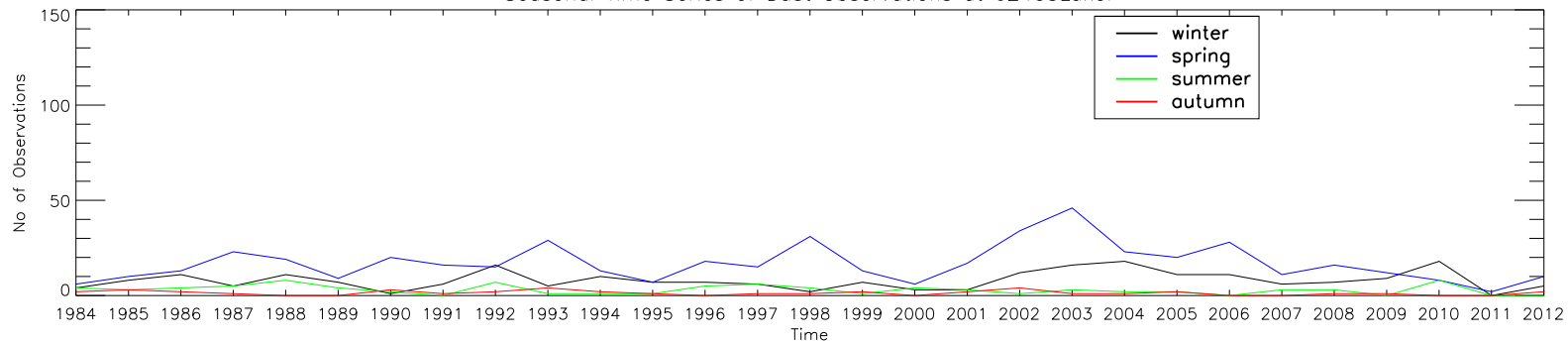
Time Series of All Observations at 62405Luxor



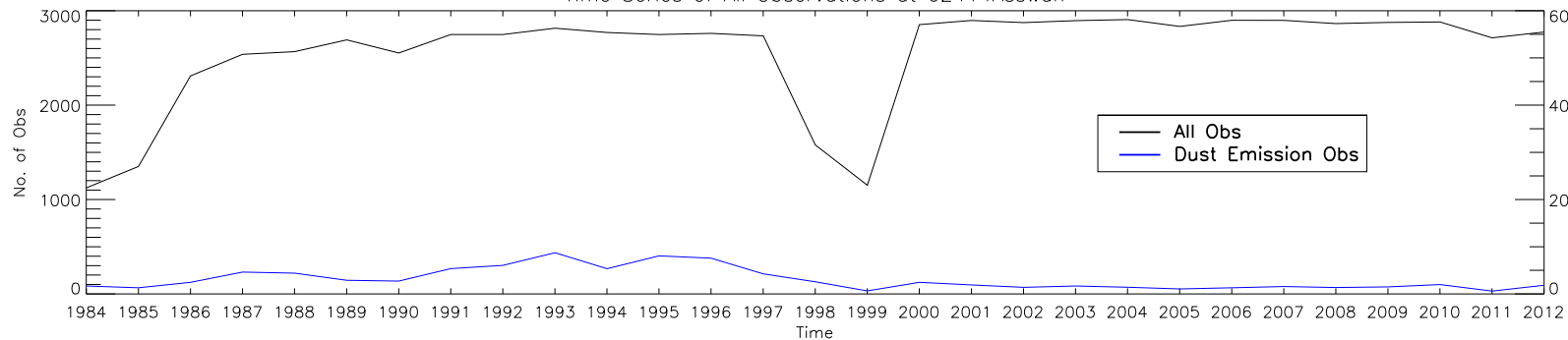
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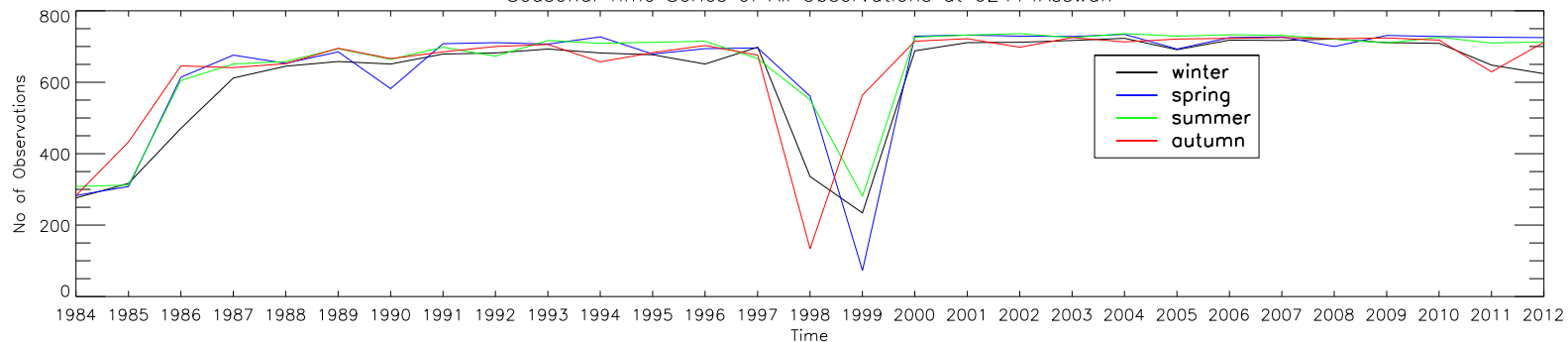
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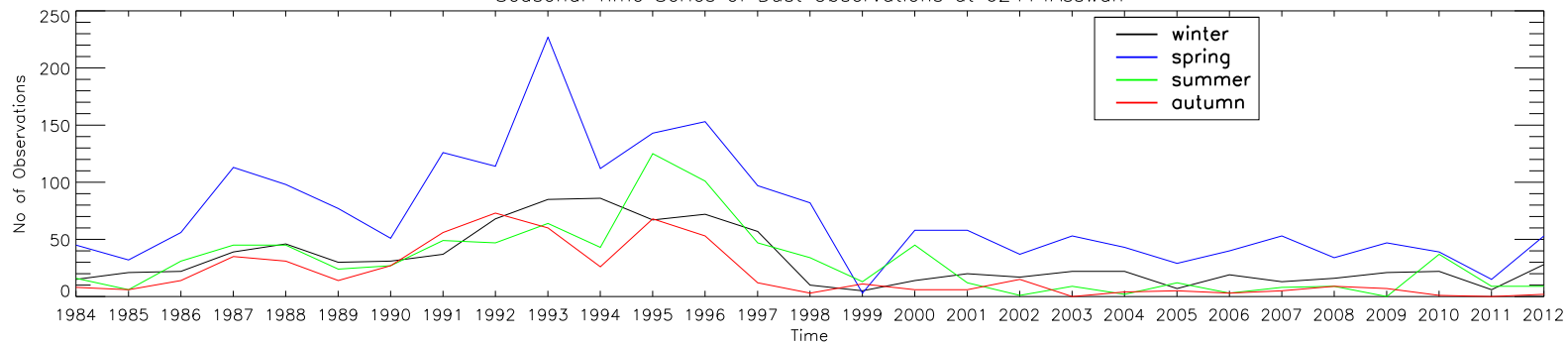
Time Series of All Observations at 62414Asswan



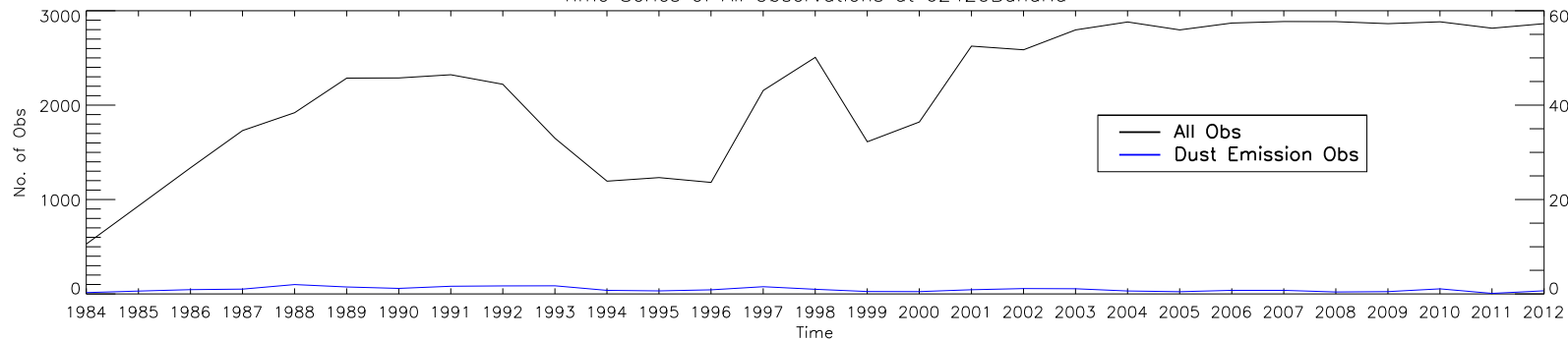
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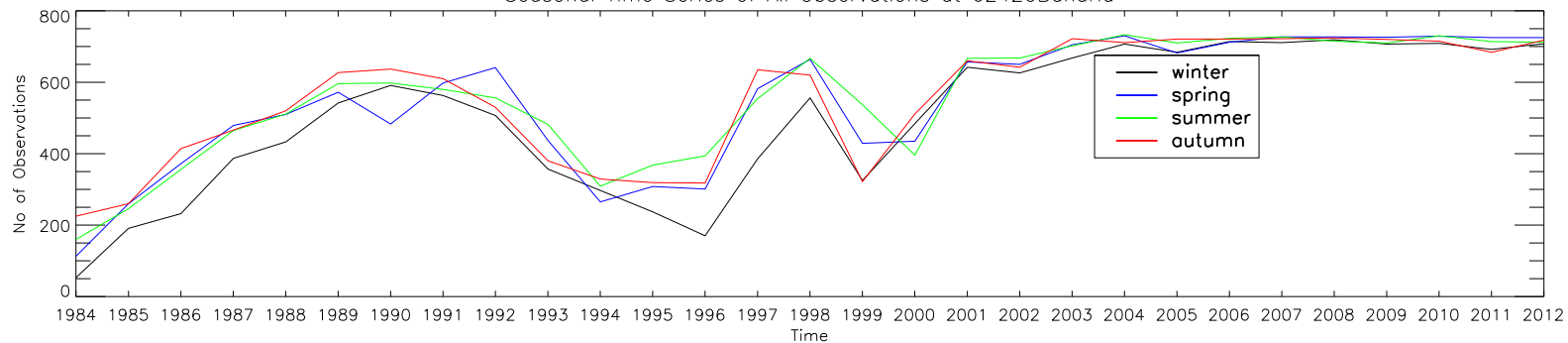
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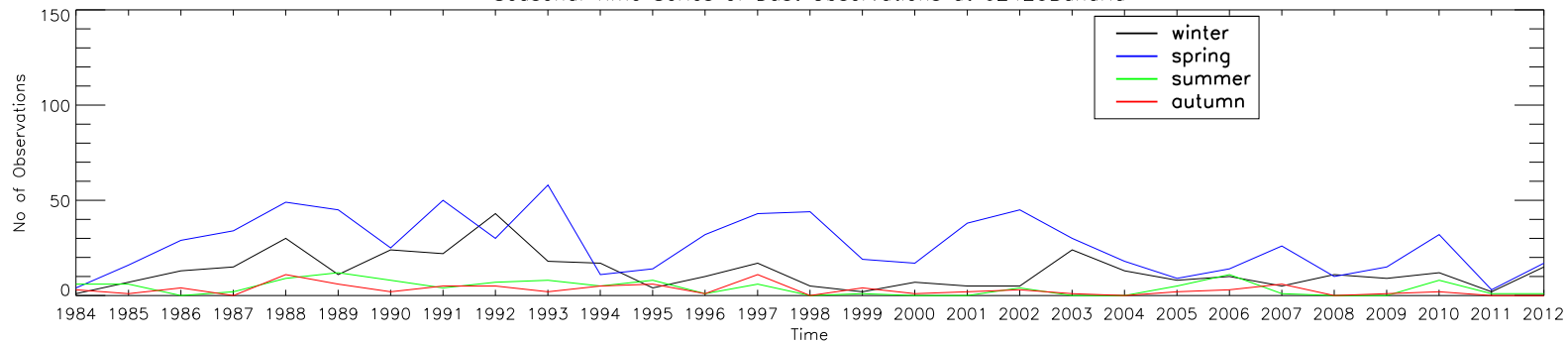
Time Series of All Observations at 62420Baharia



Seasonal Time Series of All Observations at 62420Baharia

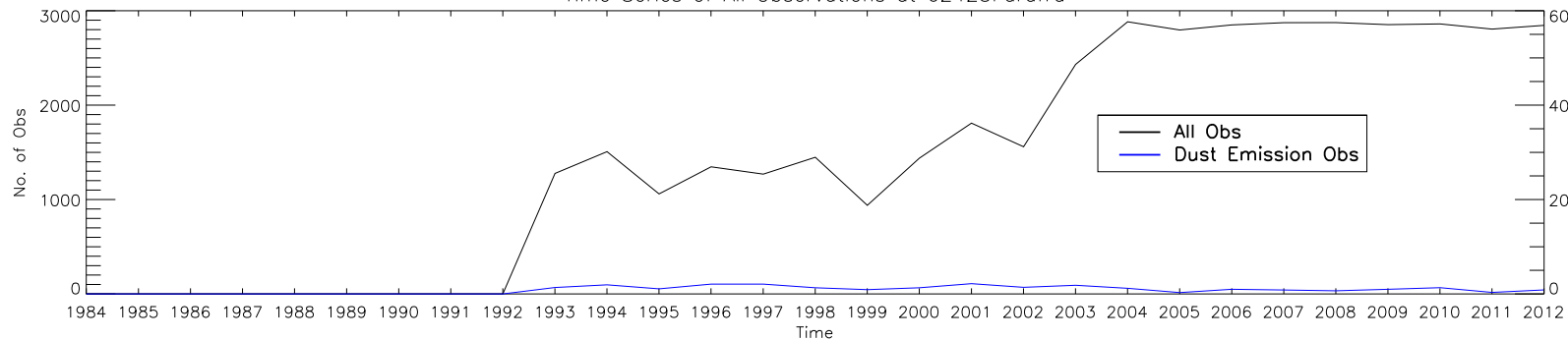


Seasonal Time Series of Dust Observations at 62420Baharia

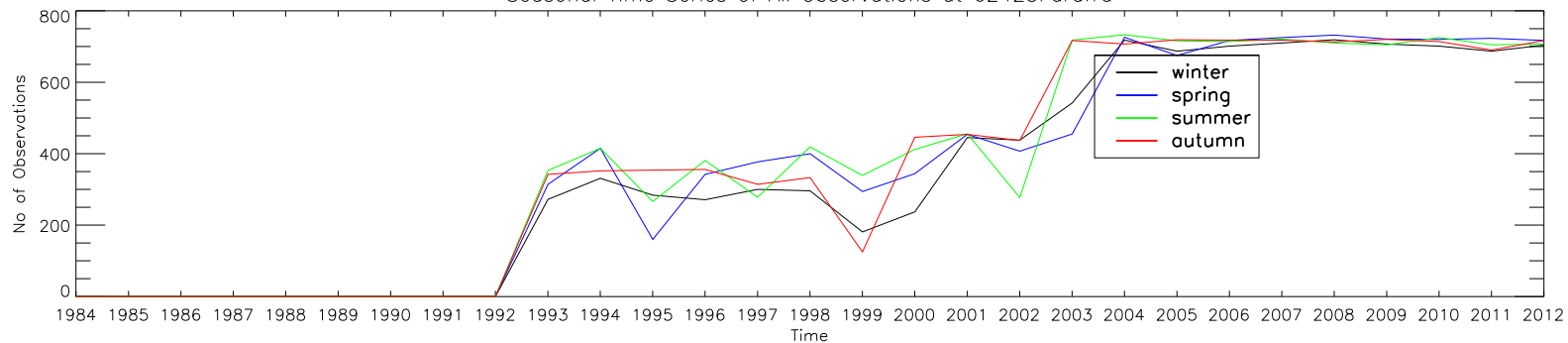




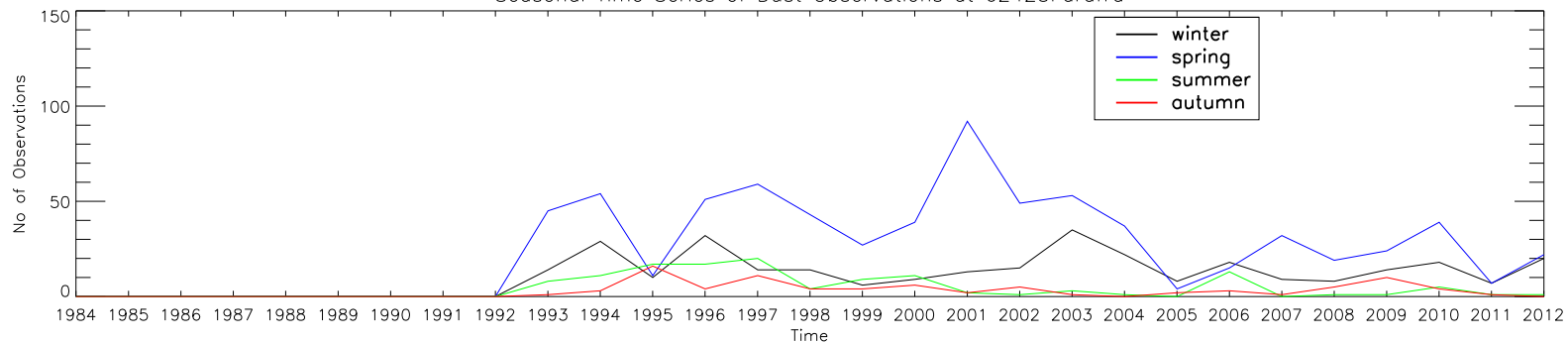
Time Series of All Observations at 62423Farafra



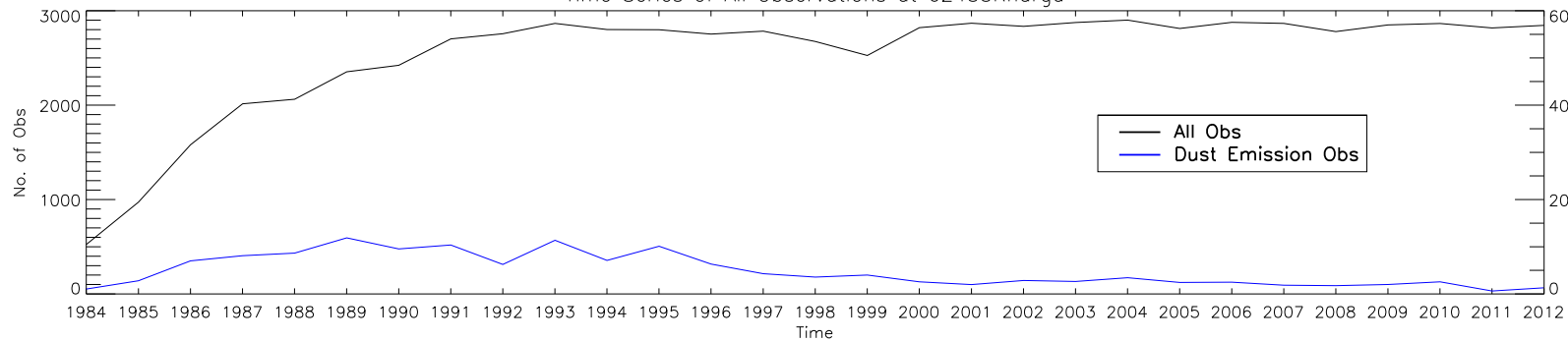
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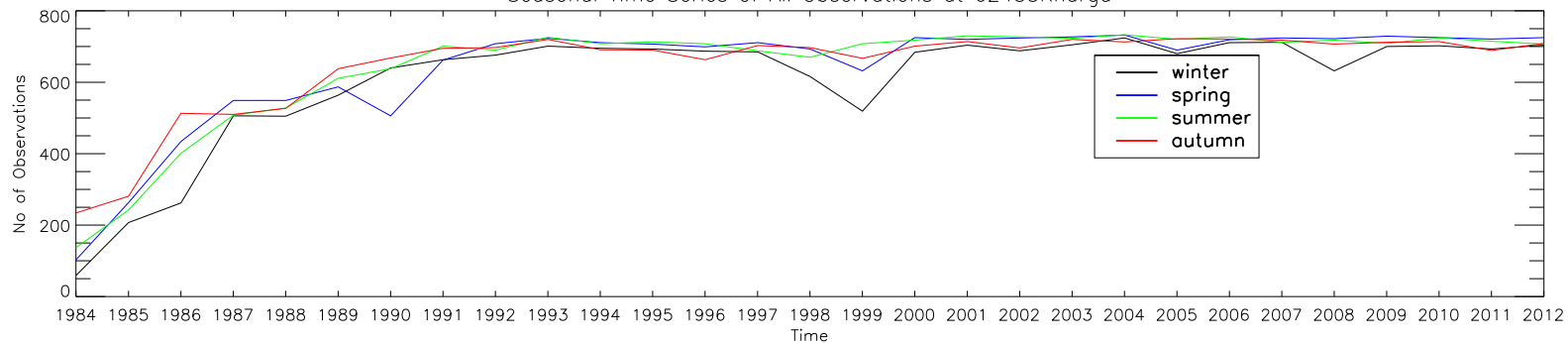
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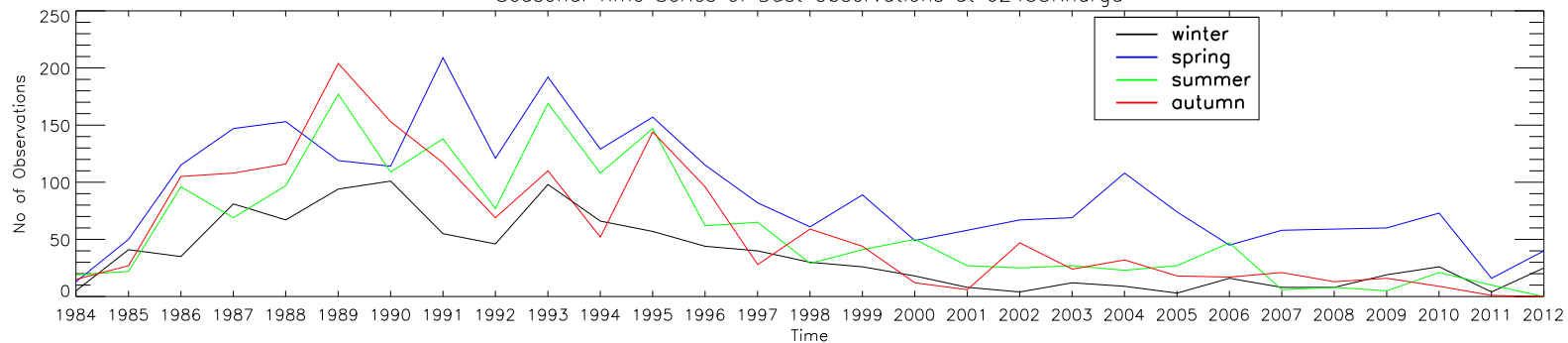
Time Series of All Observations at 62435Kharga



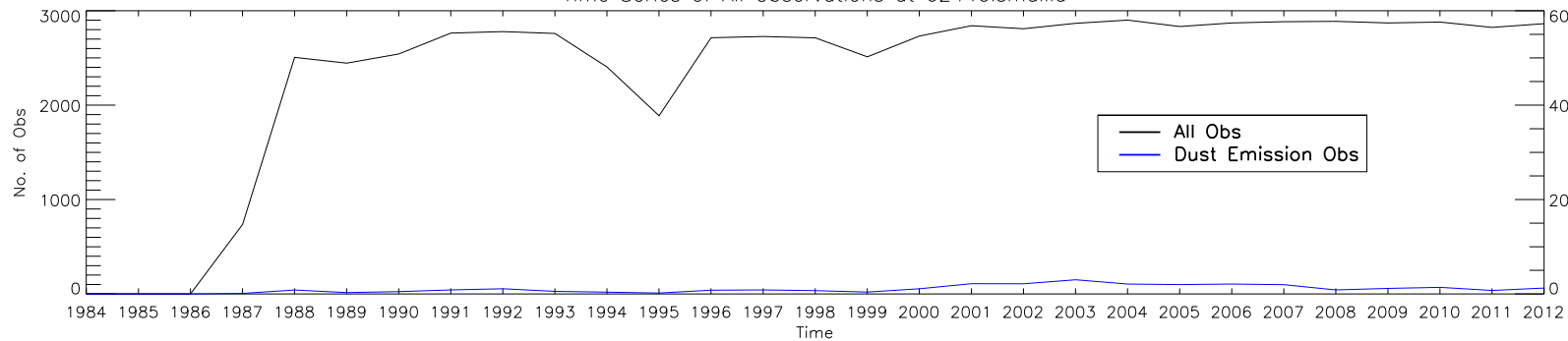
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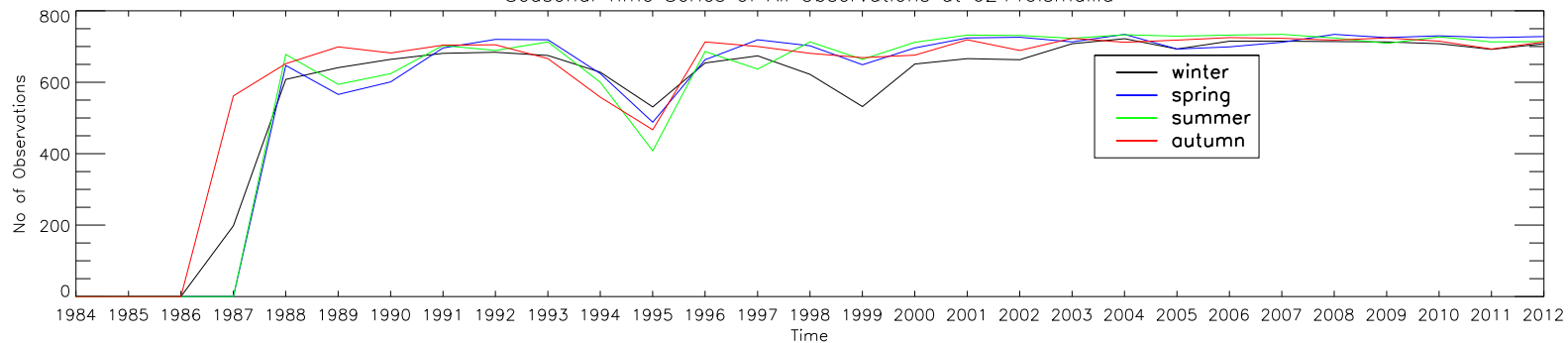
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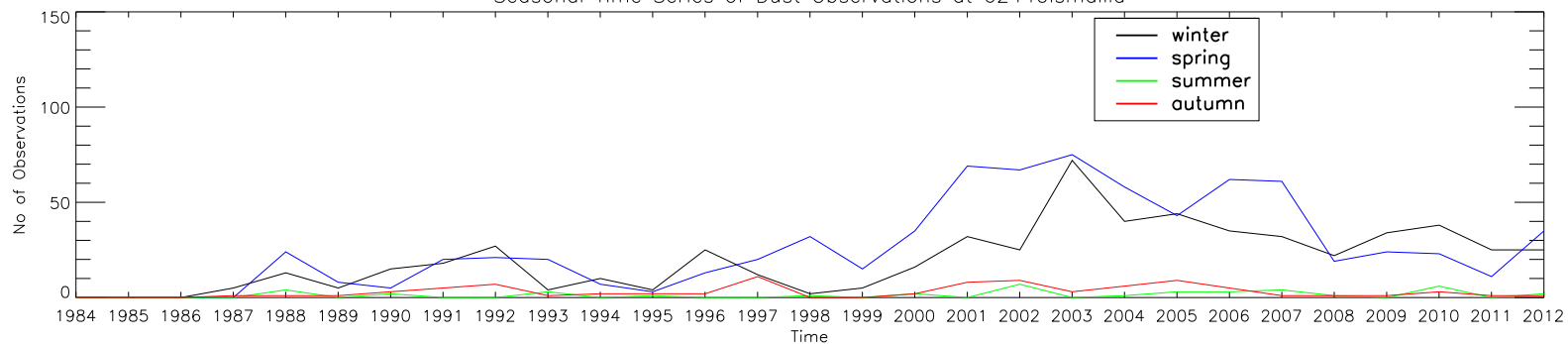
Time Series of All Observations at 62440Ismailia



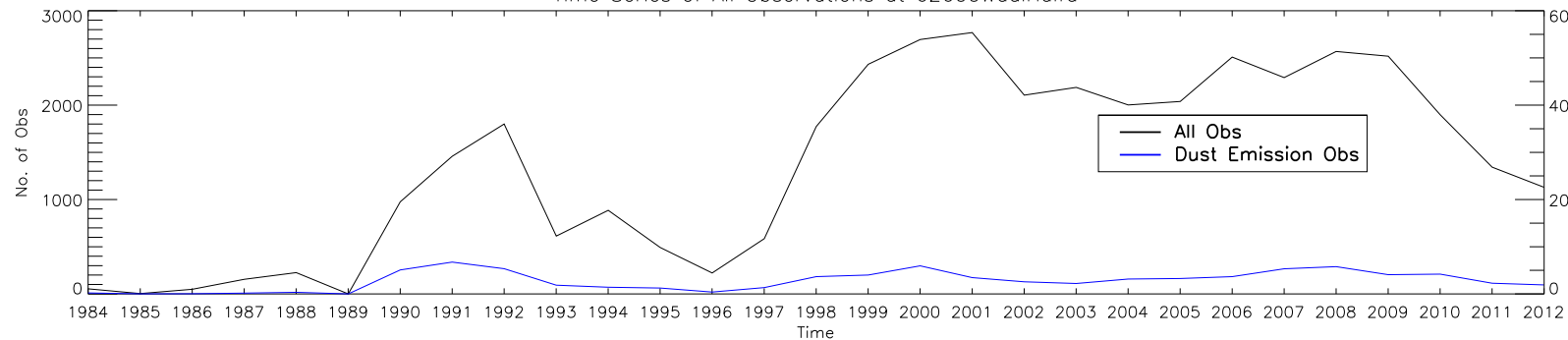
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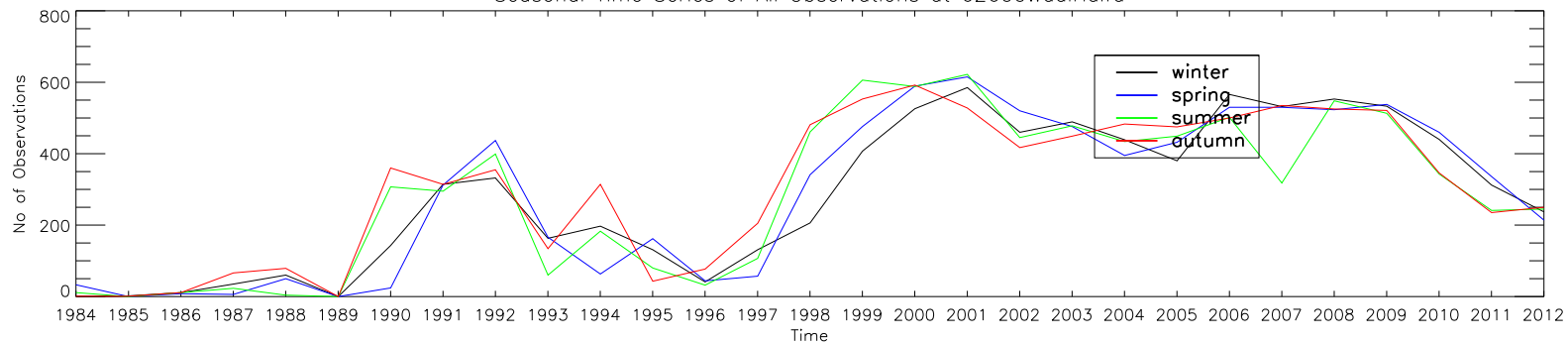
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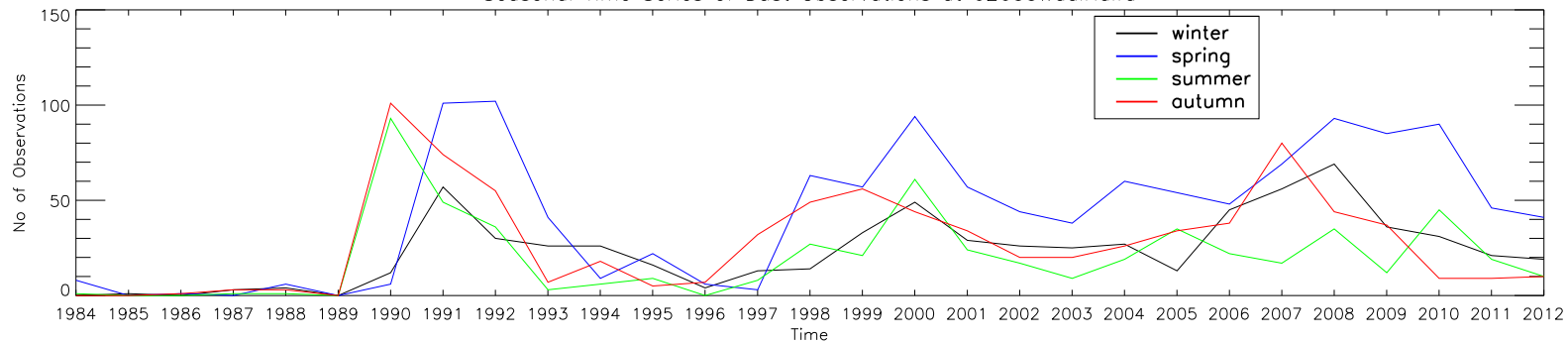
Time Series of All Observations at 62600WadiHalfa



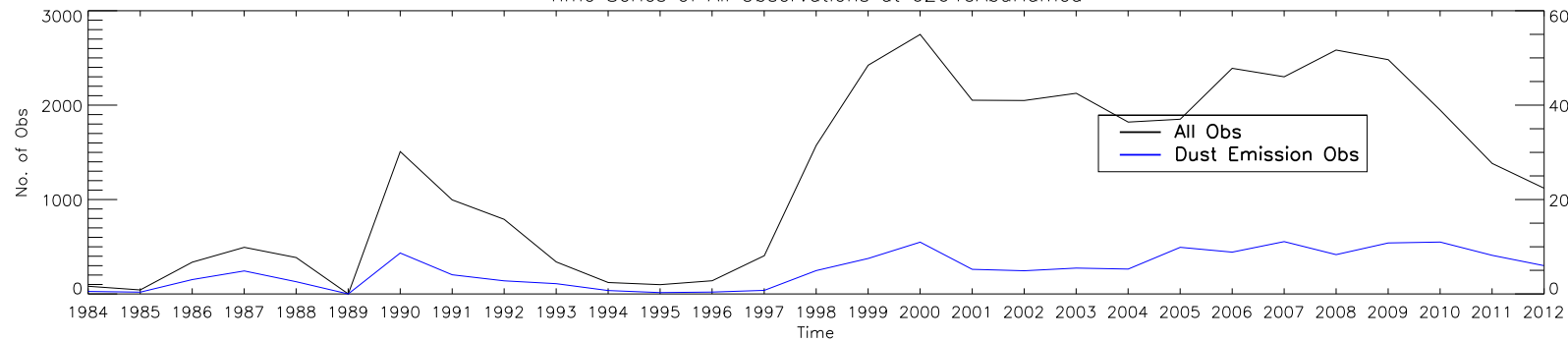
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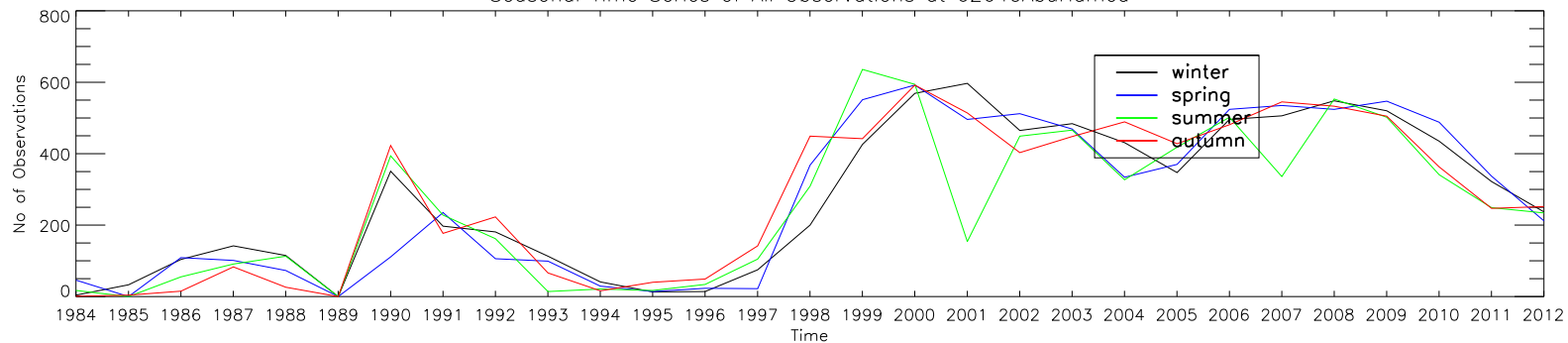
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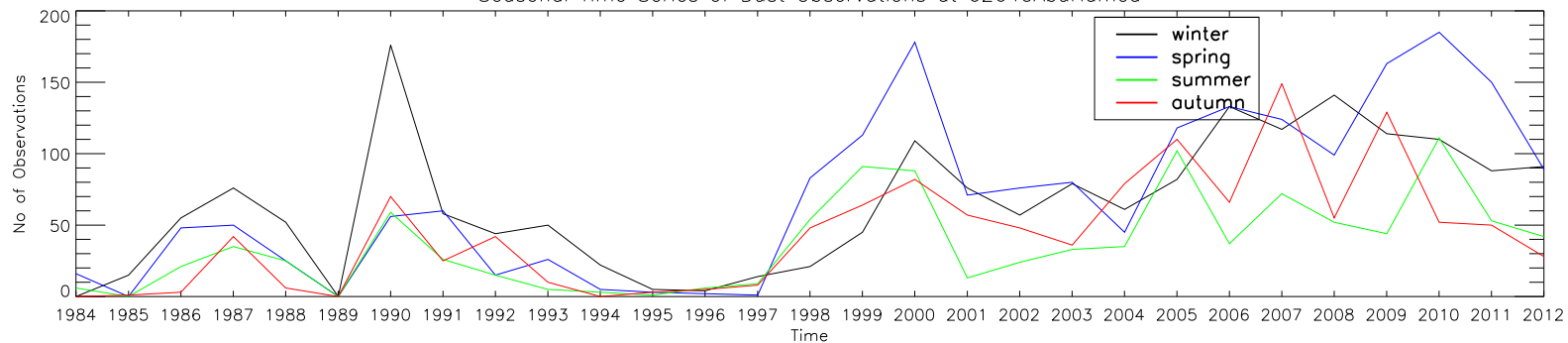
Time Series of All Observations at 62640AbuHamed



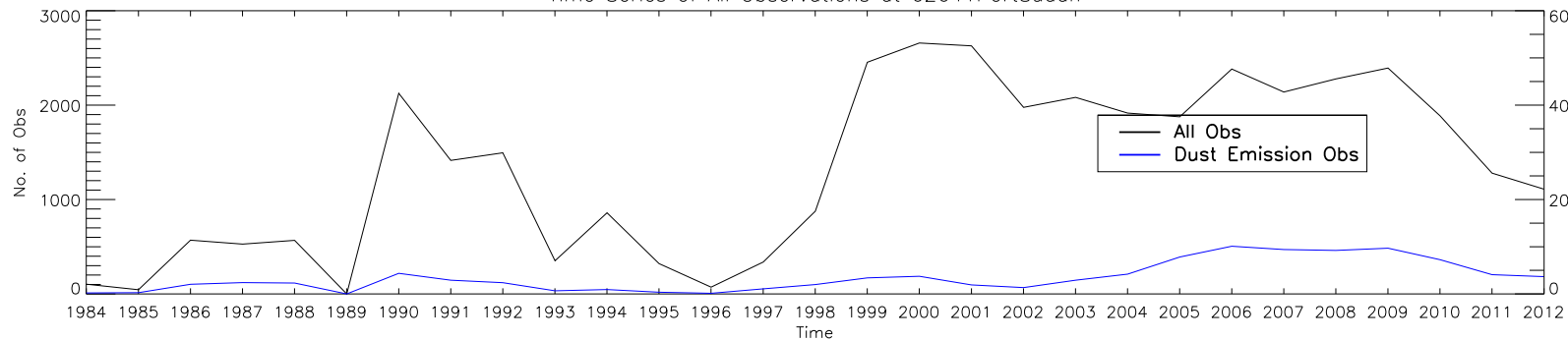
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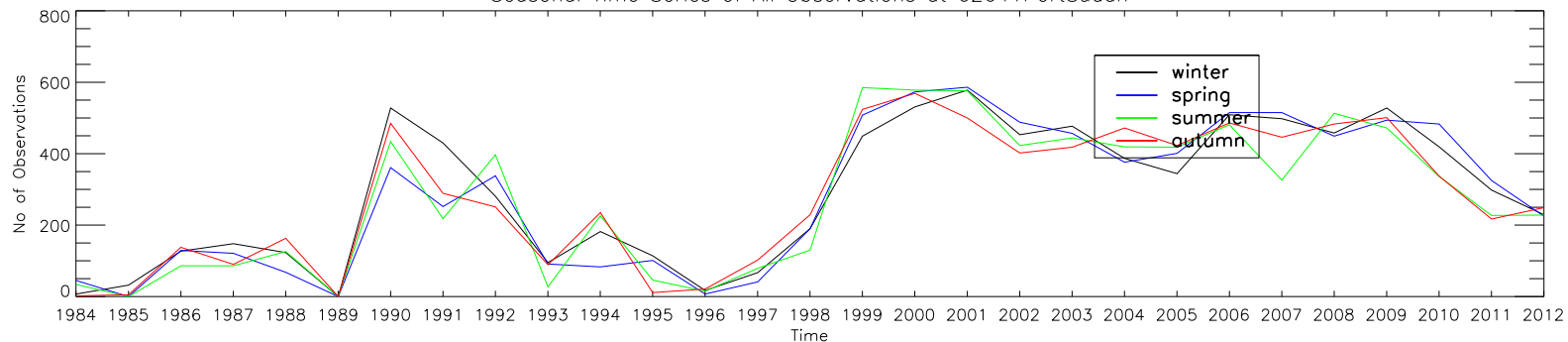
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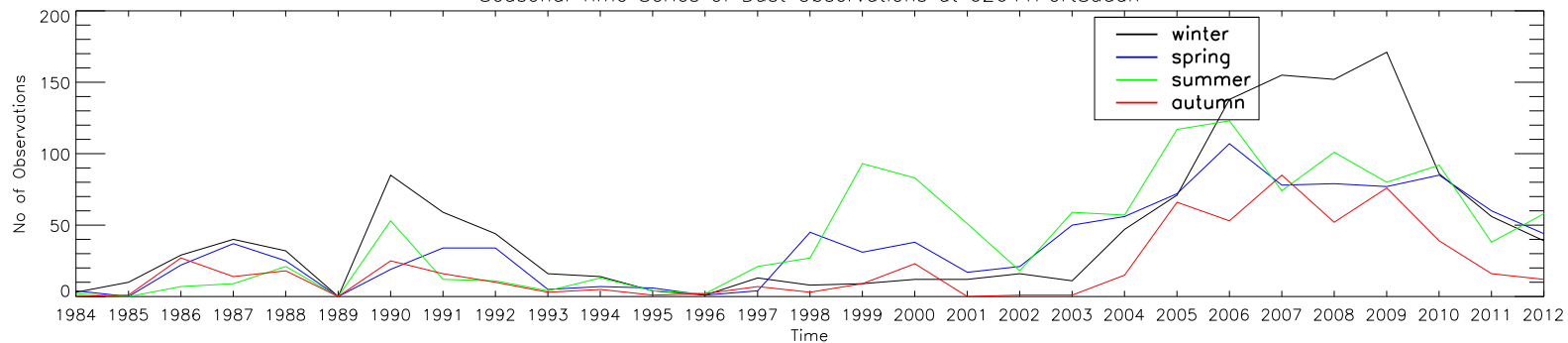
Time Series of All Observations at 62641PortSudan



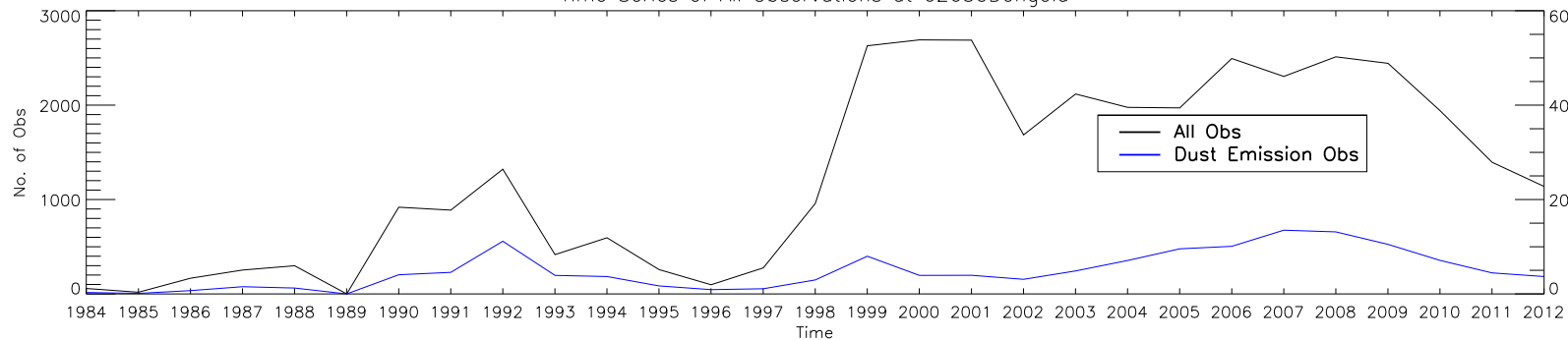
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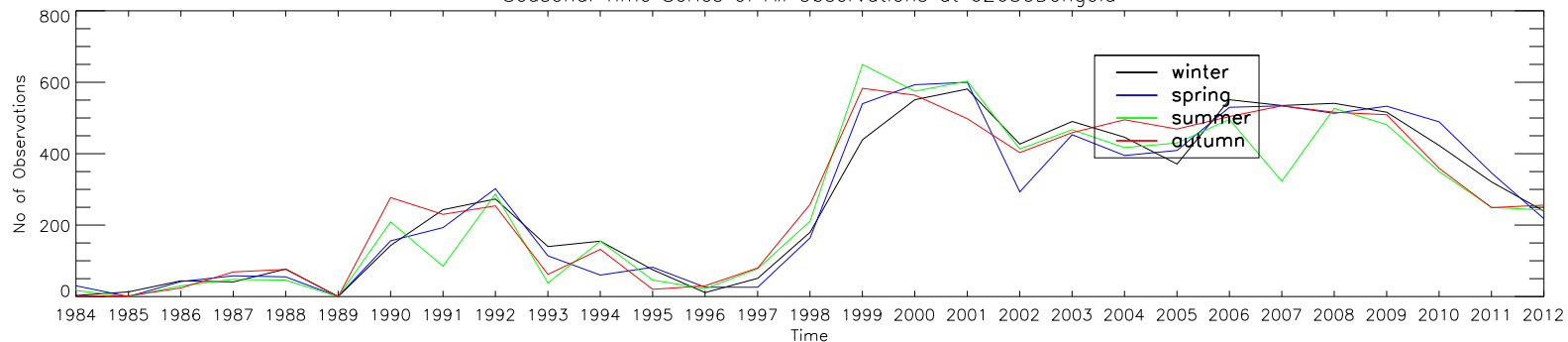
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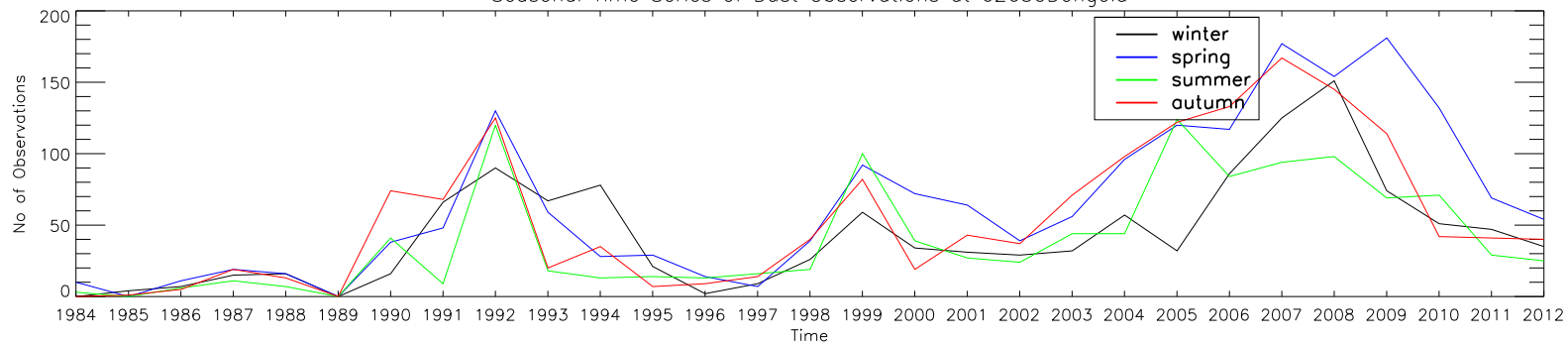
Time Series of All Observations at 62650Dongola



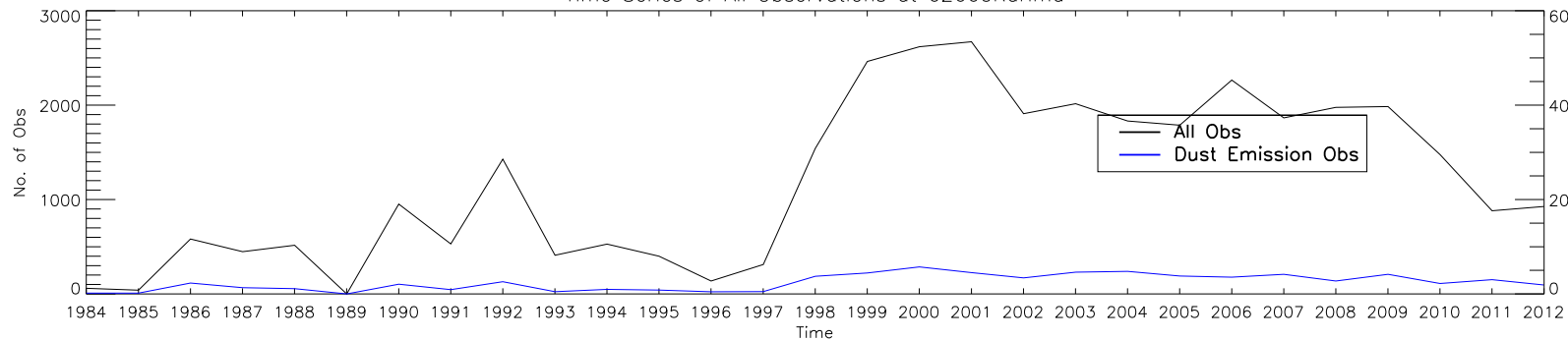
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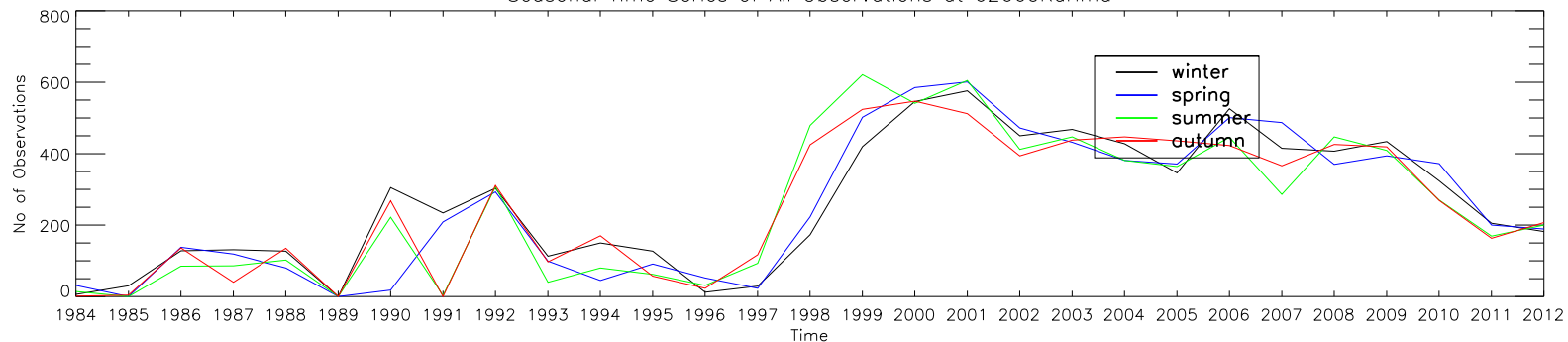
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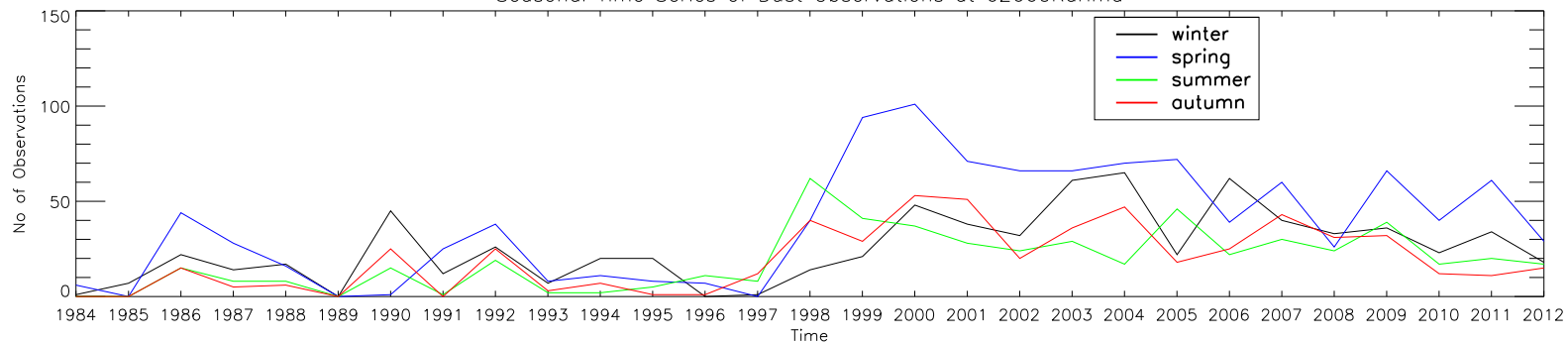
Time Series of All Observations at 62660Karima



Seasonal Time Series of All Observations at 62660Karima

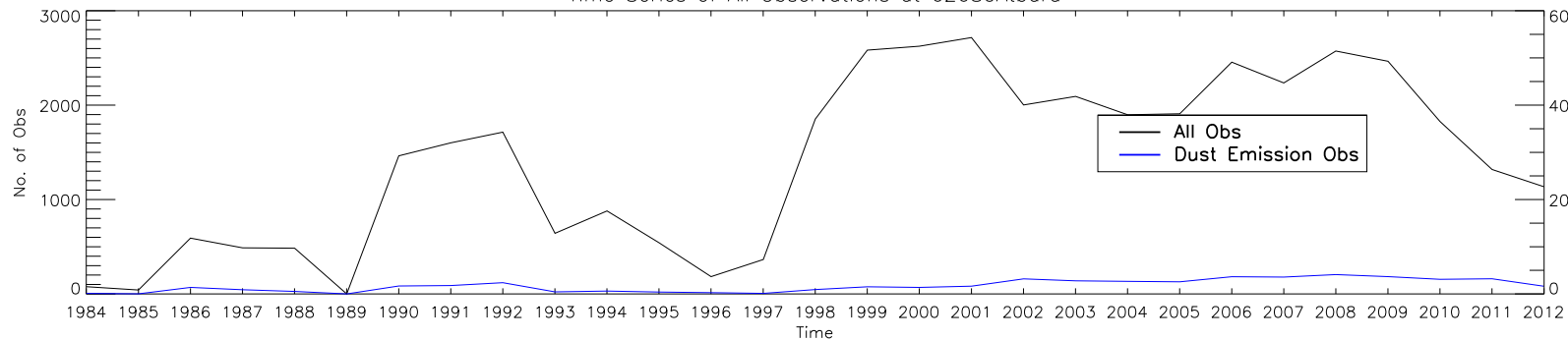


Seasonal Time Series of Dust Observations at 62660Karima

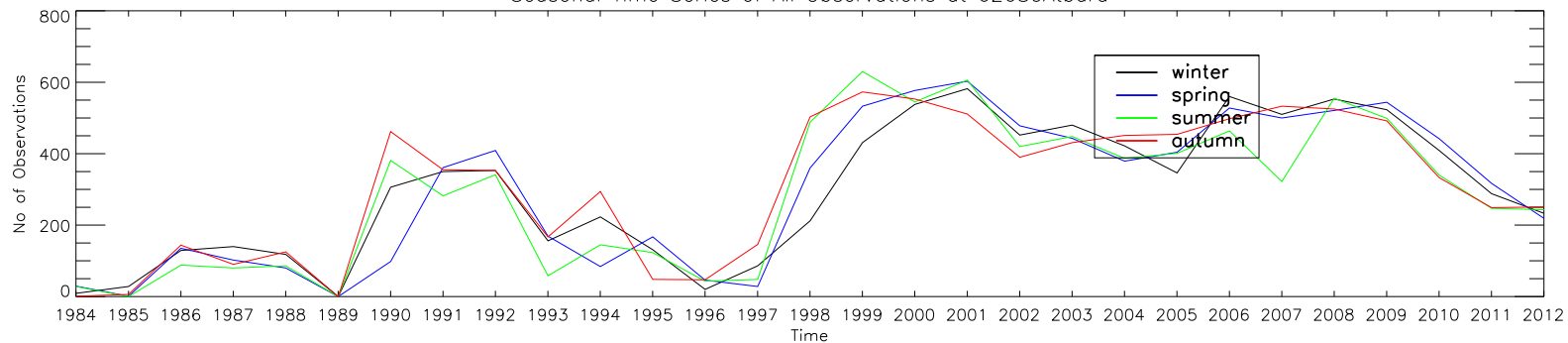




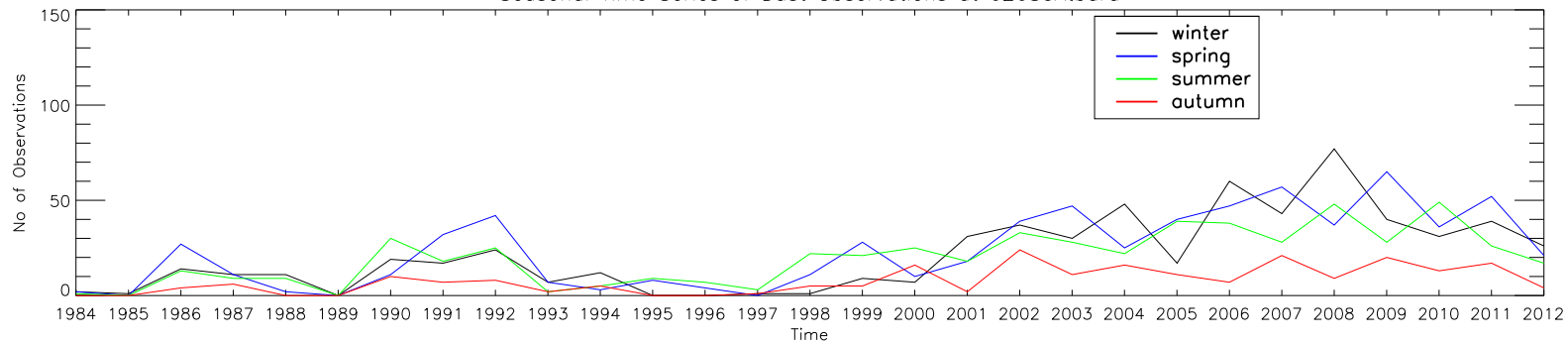
Time Series of All Observations at 62680Atbara



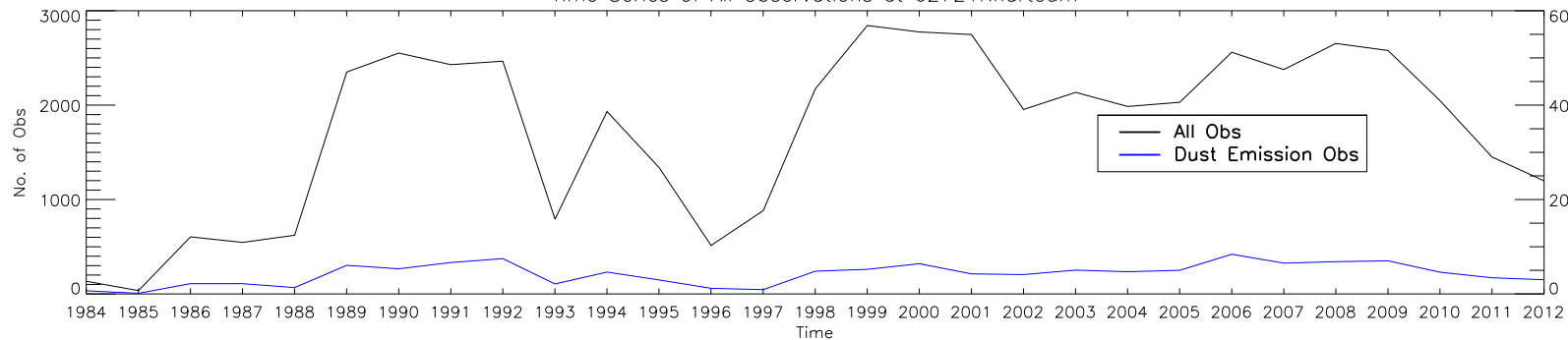
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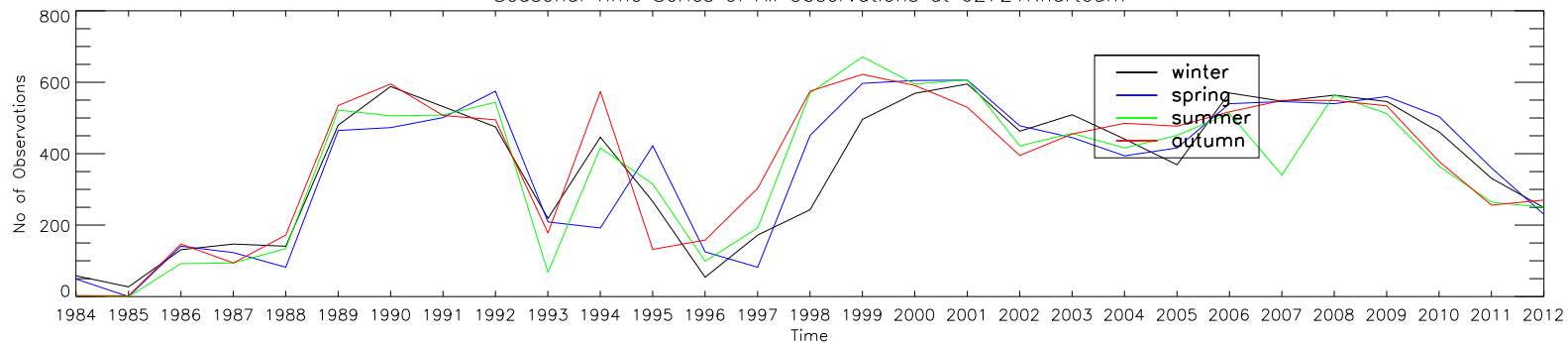
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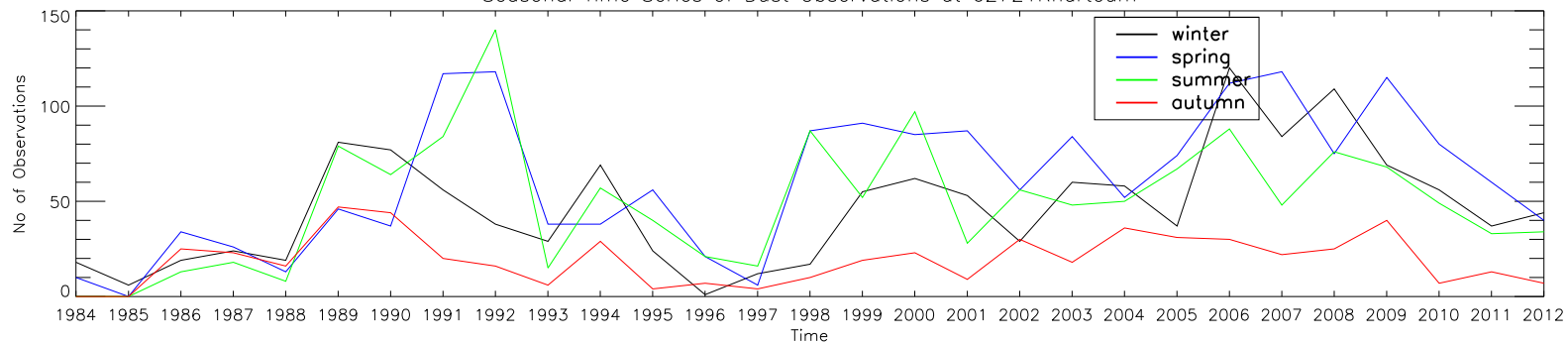
Time Series of All Observations at 62721Khartoum



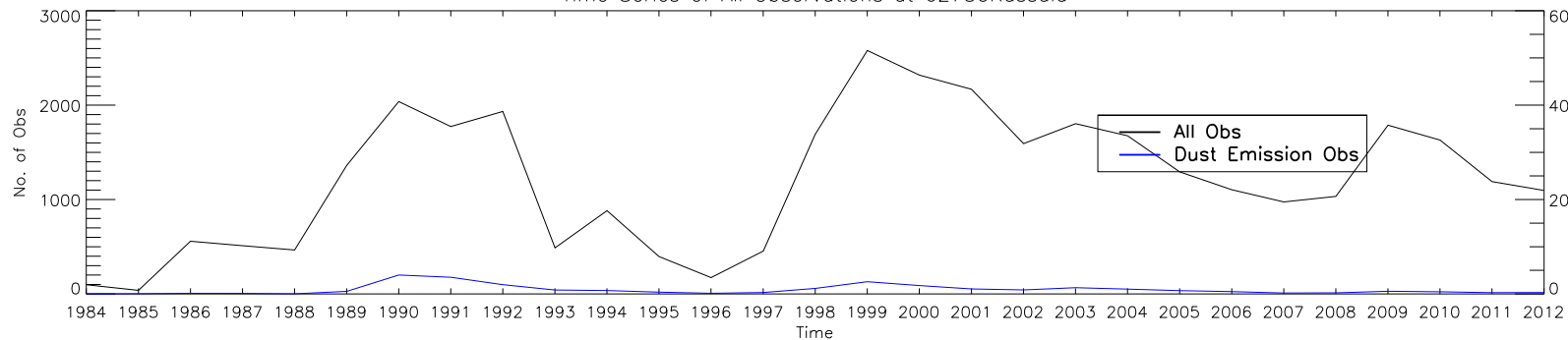
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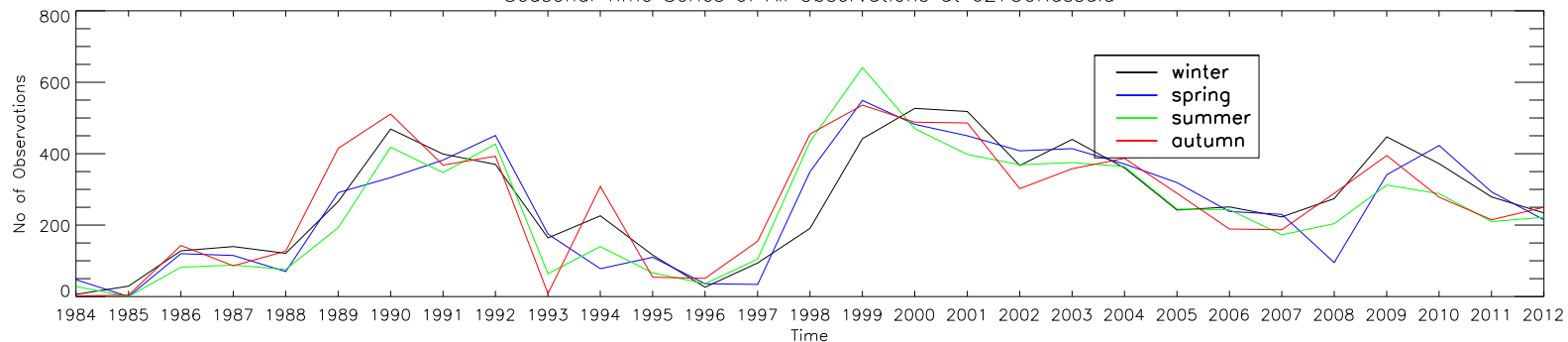
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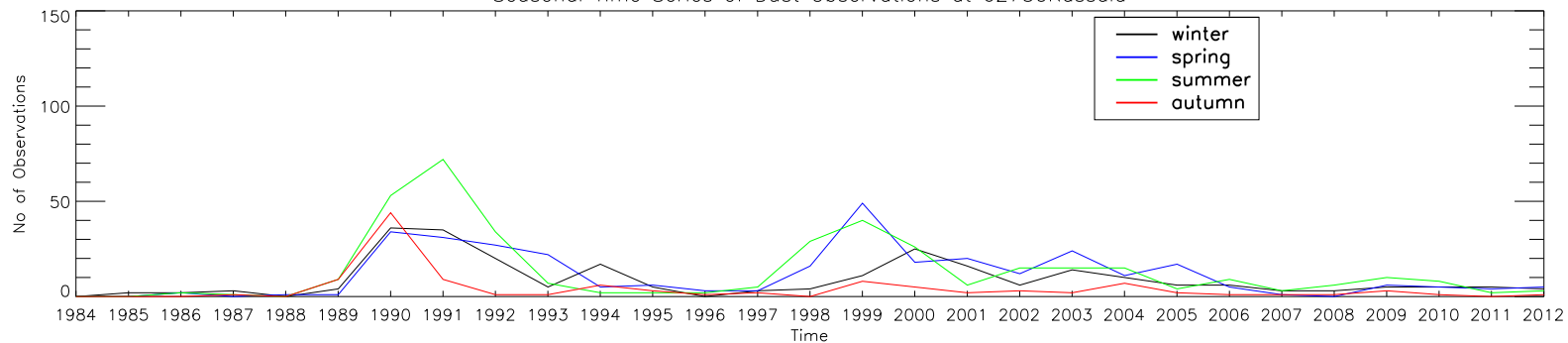
Time Series of All Observations at 62730Kassala



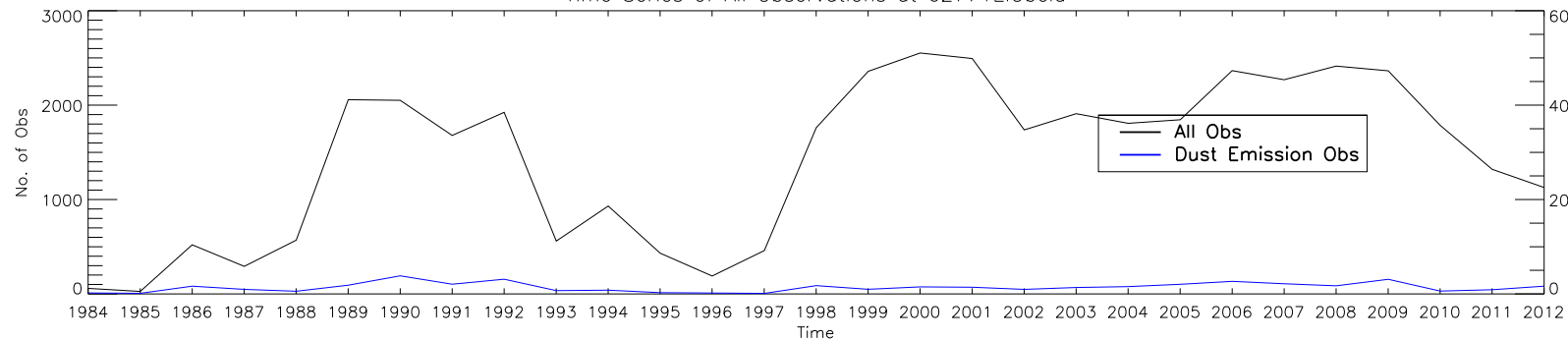
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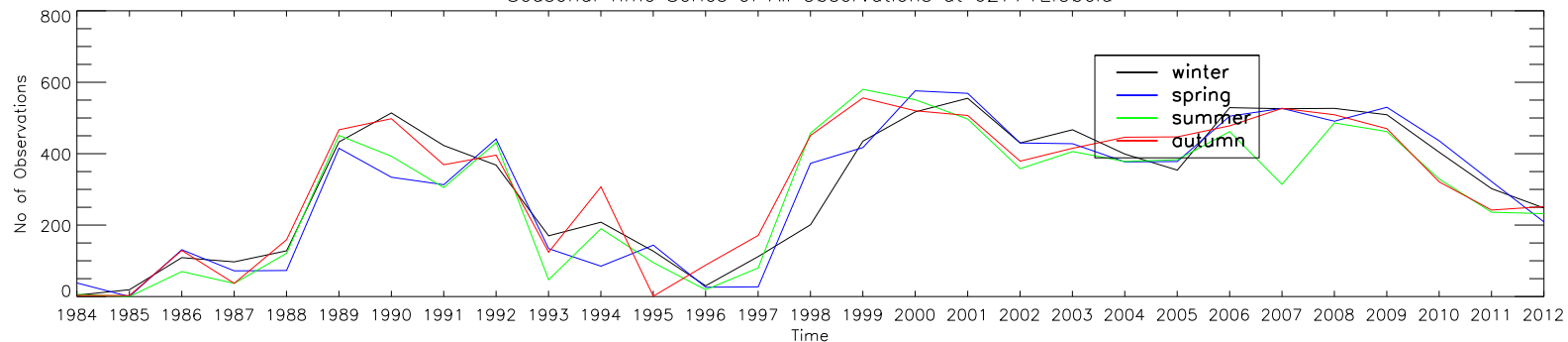
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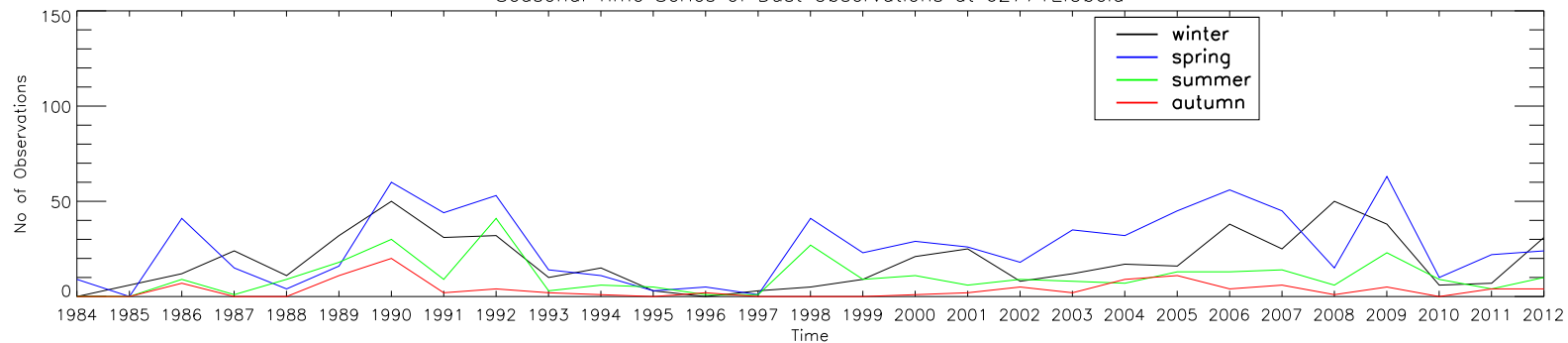
Time Series of All Observations at 62771EIObeid



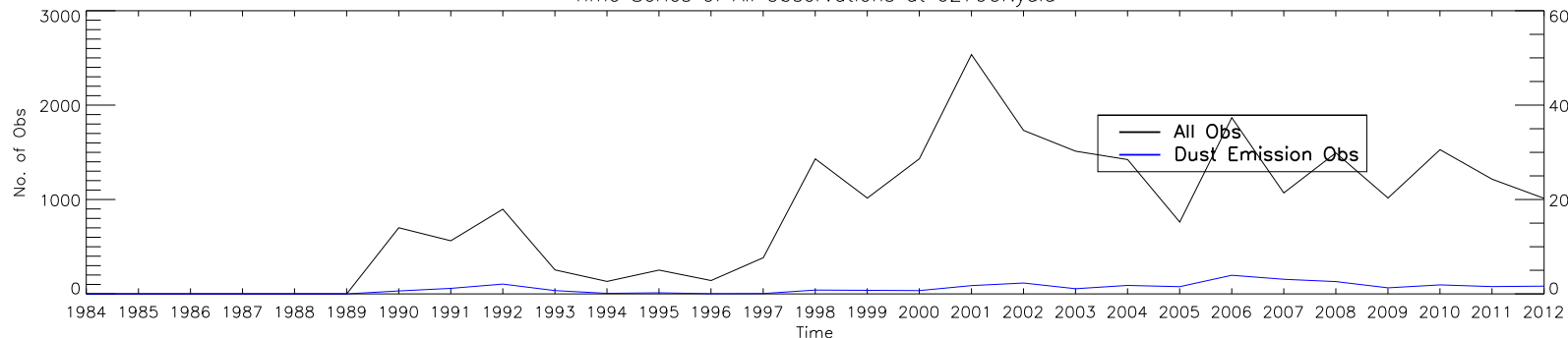
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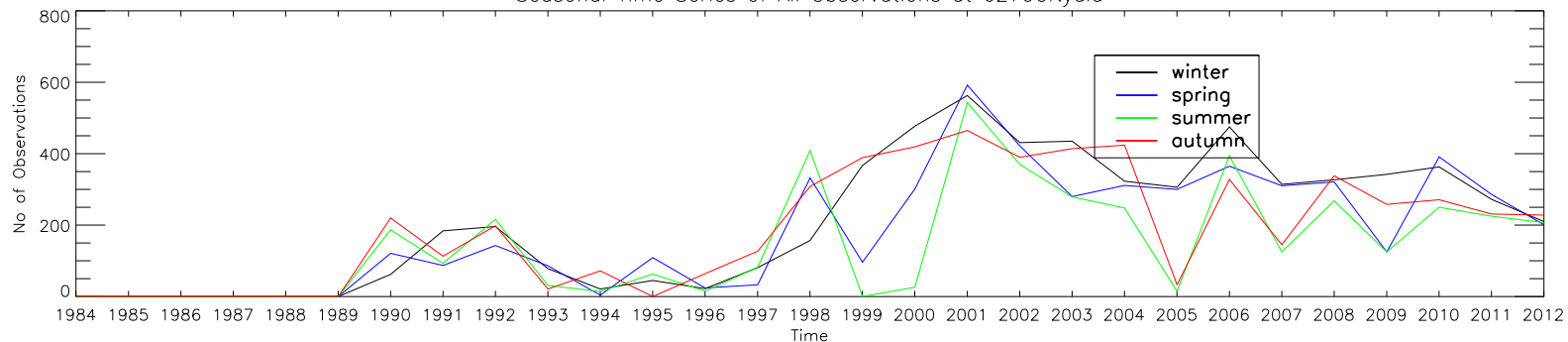
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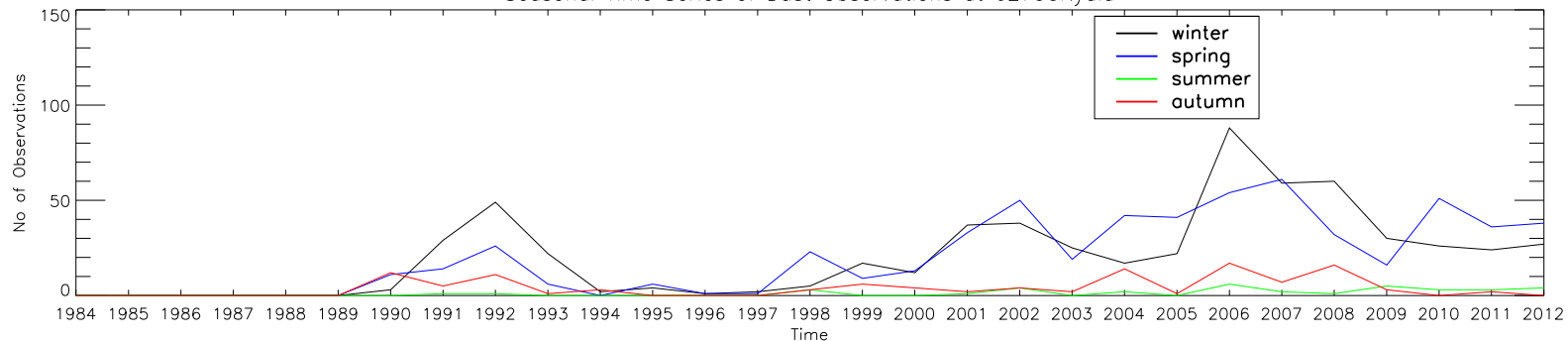
Time Series of All Observations at 62790Nyala



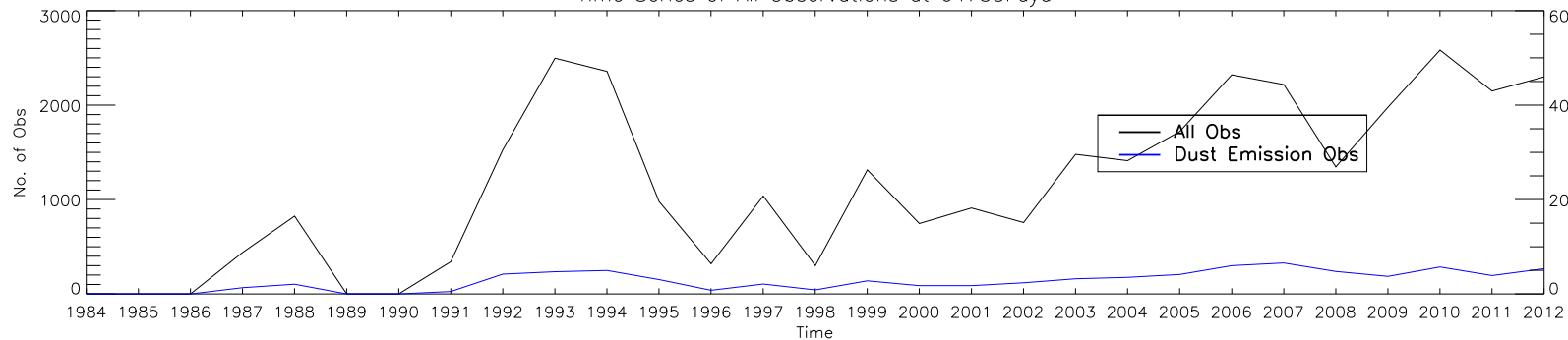
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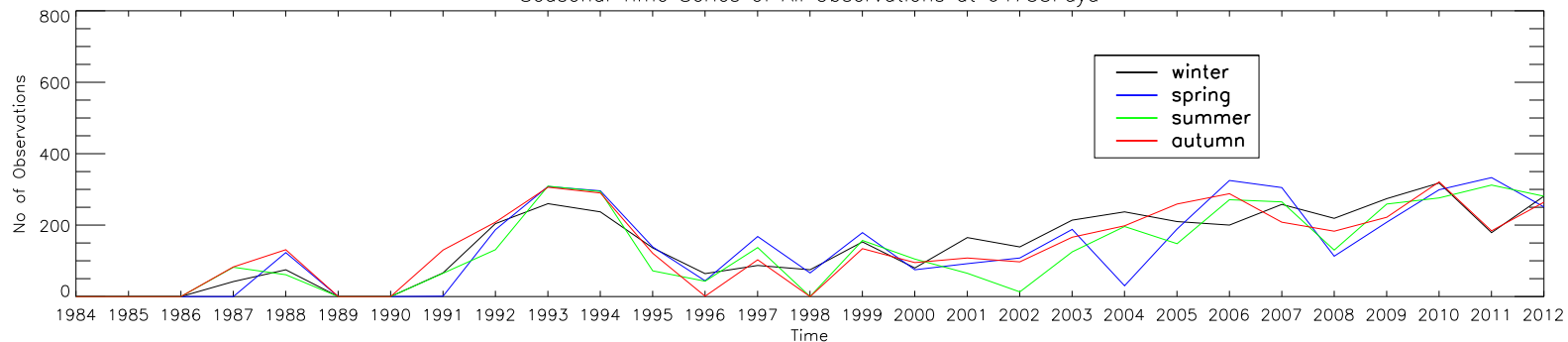
Seasonal Time Series of Dust Observations at 62790Nyala



Time Series of All Observations at 64753Faya



Seasonal Time Series of All Observations at 64753Faya



Seasonal Time Series of Dust Observations at 64753Faya

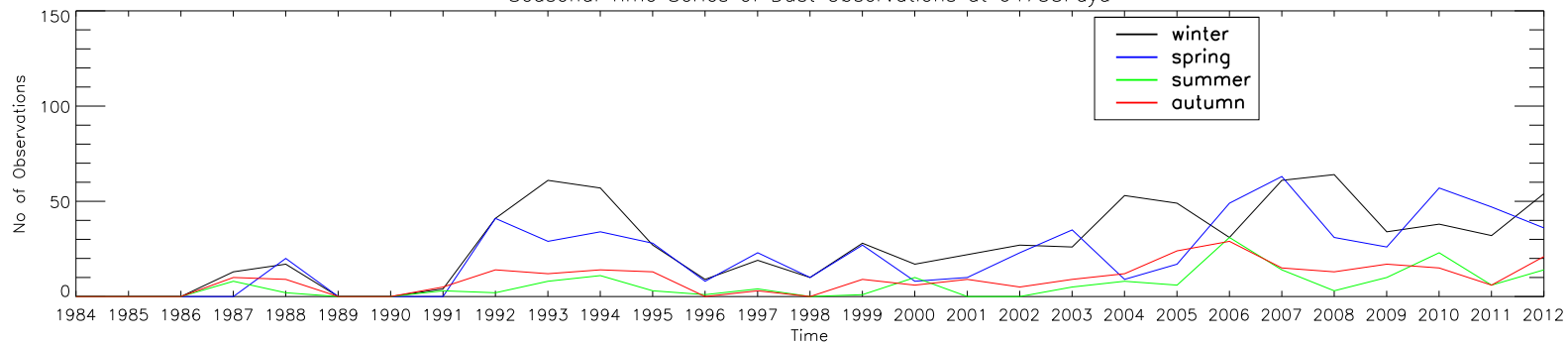
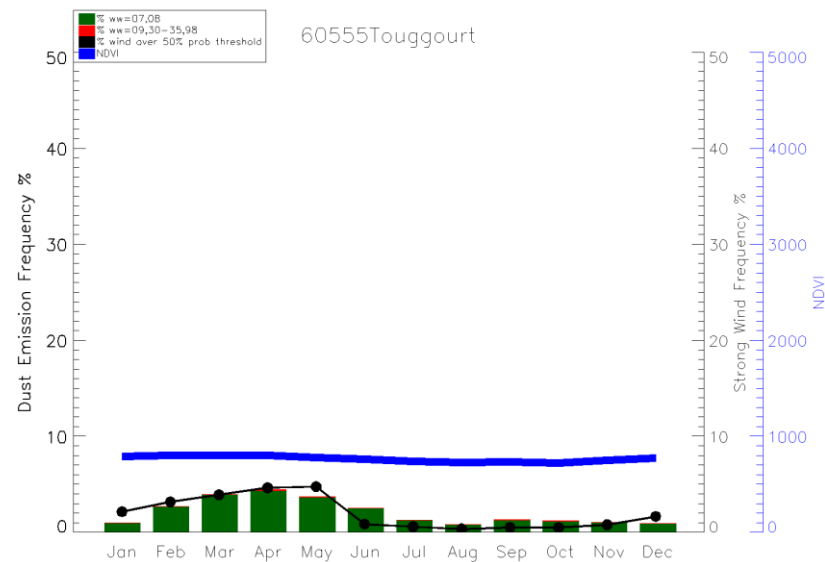
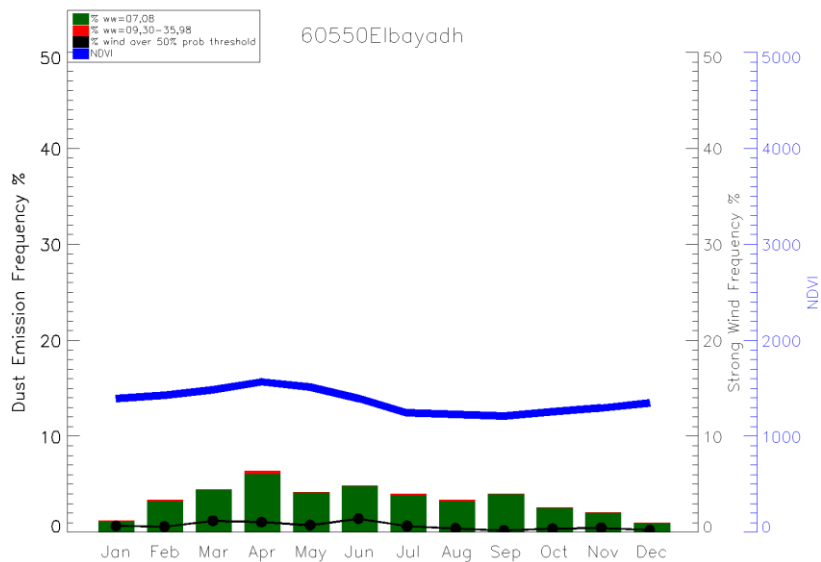
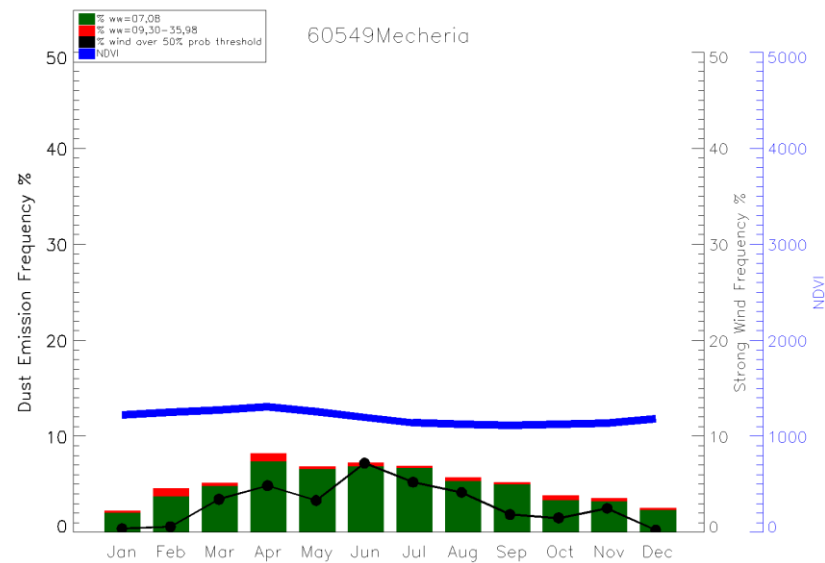
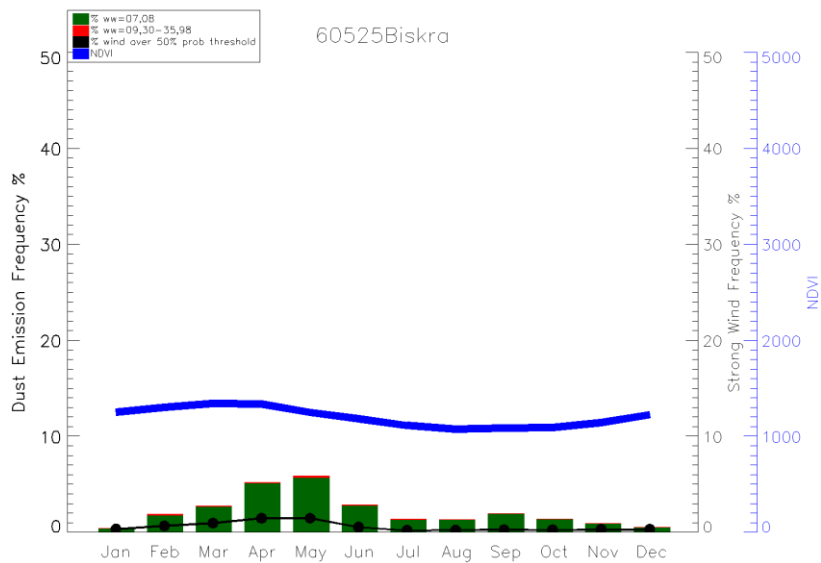
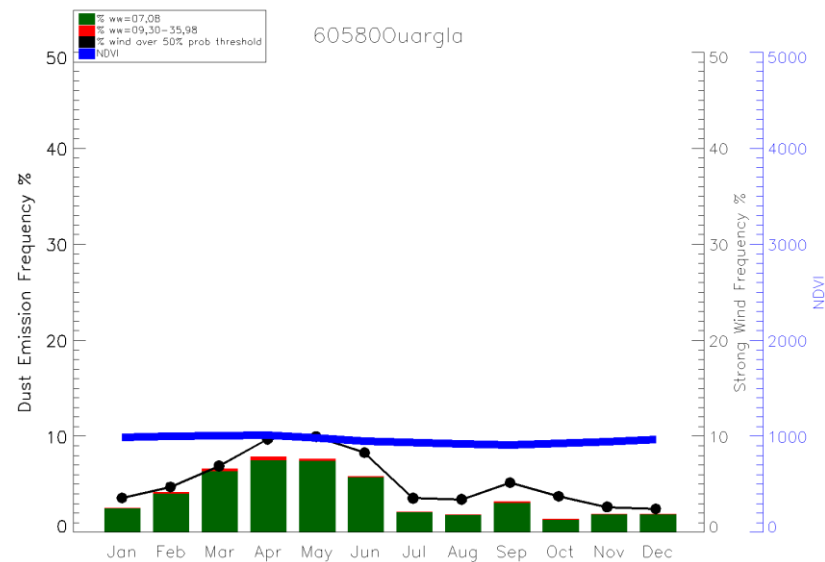
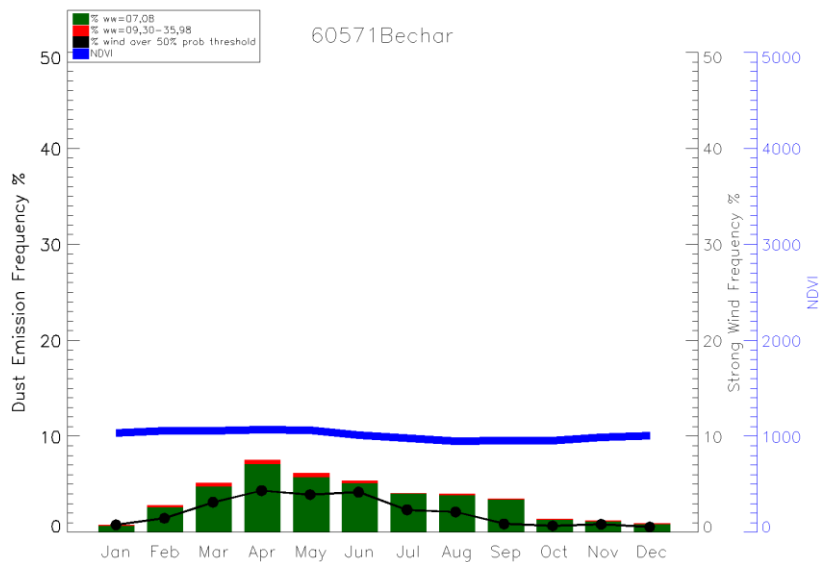
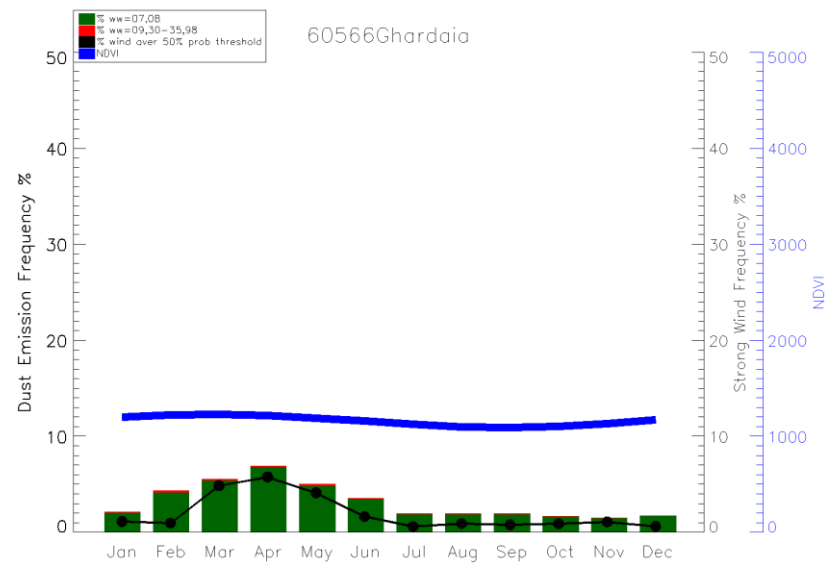
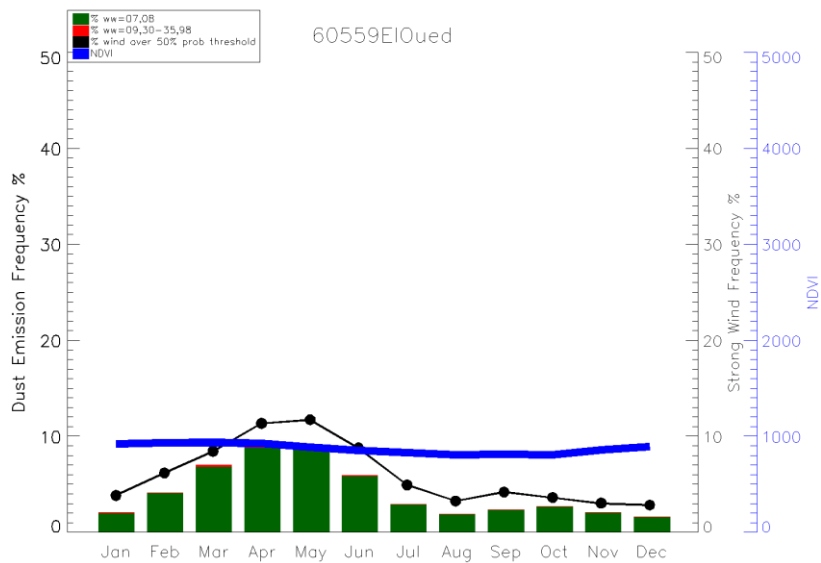
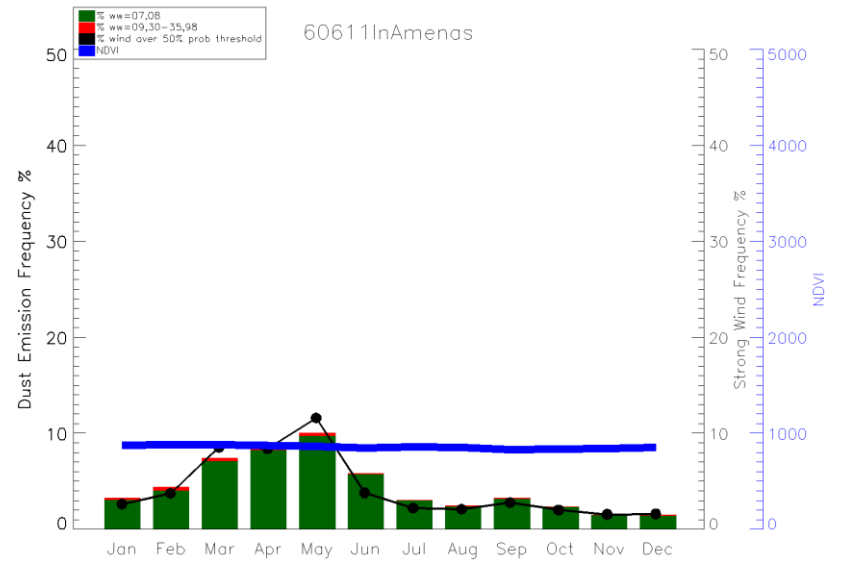
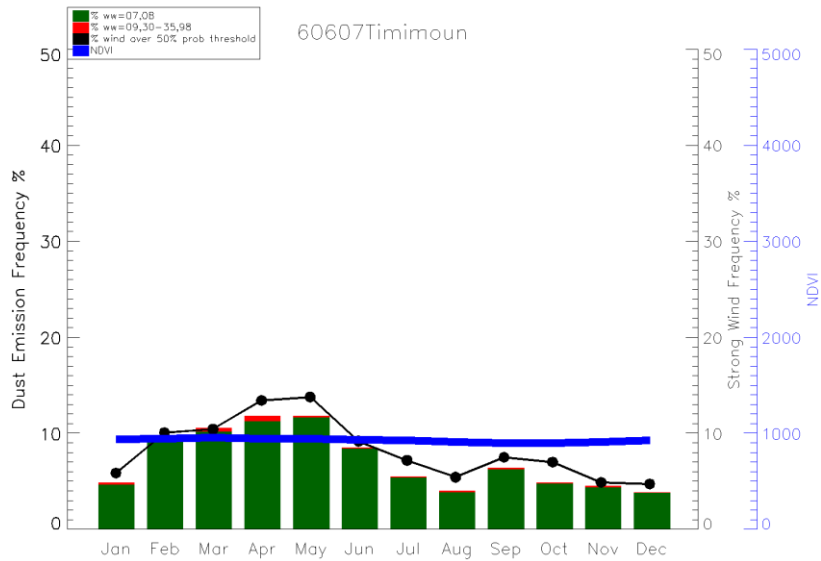
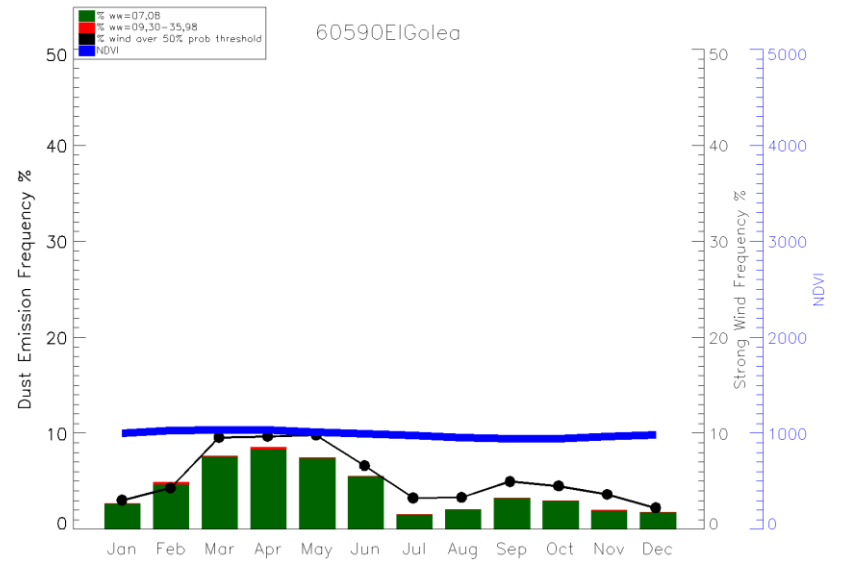
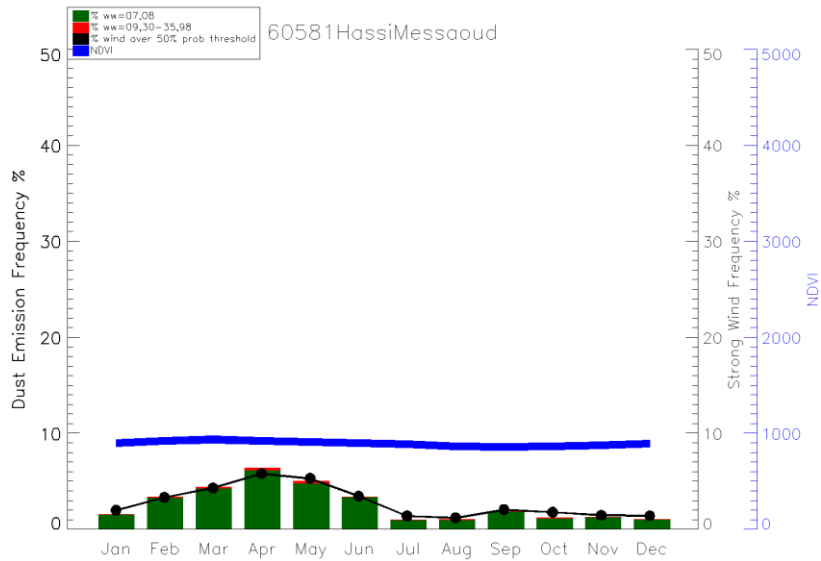


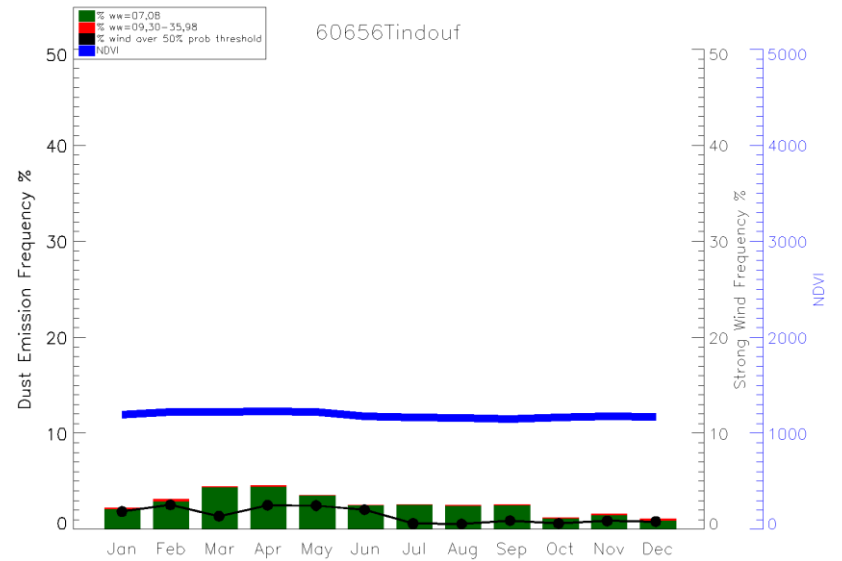
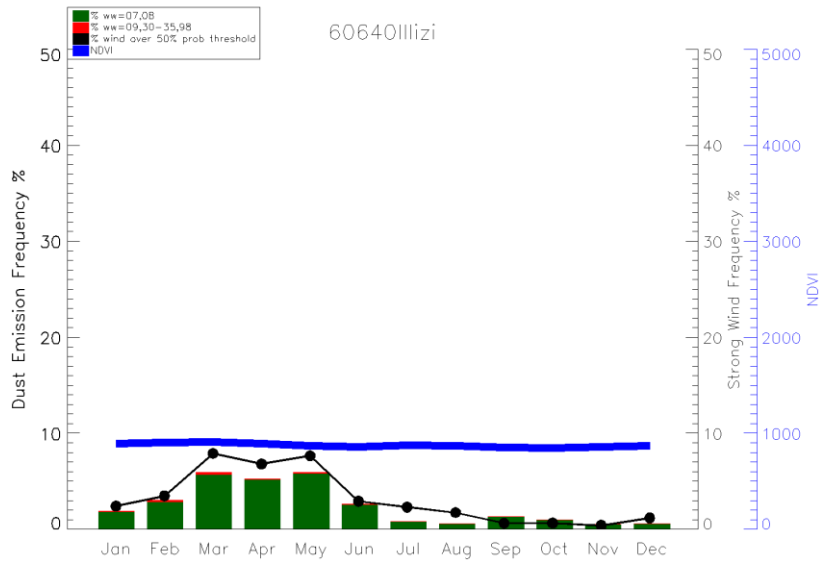
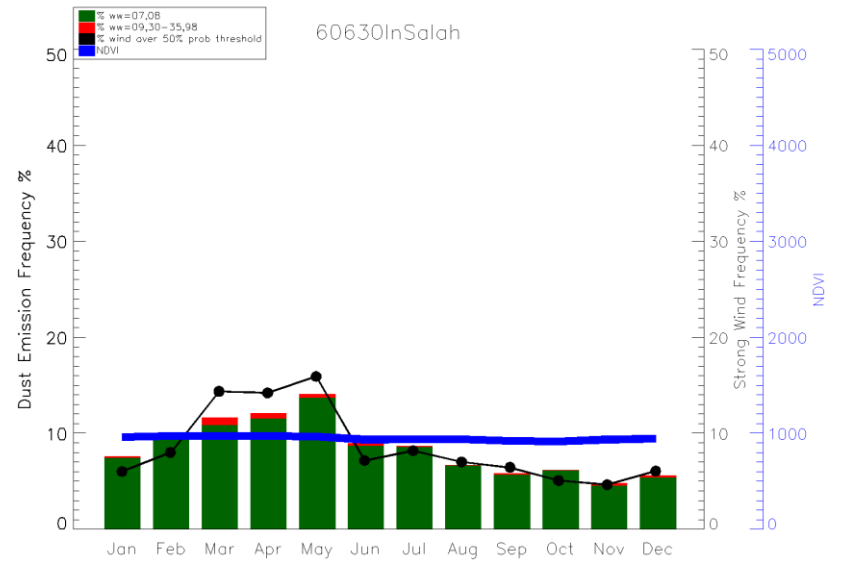
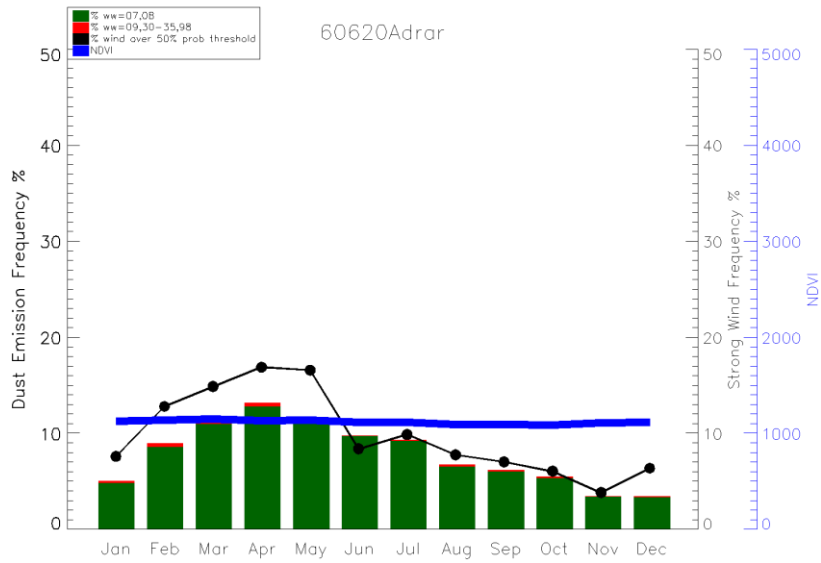
Figure S3. Annual time series of all observations (black line) and dust observations only (blue line; top plot). Seasonal time series of all observations (middle plot) where DJF=winter(black), MAM=spring(blue), JJA=summer(green), SON=(autumn). The bottom panel is the same as the middle, but for dust observations only.

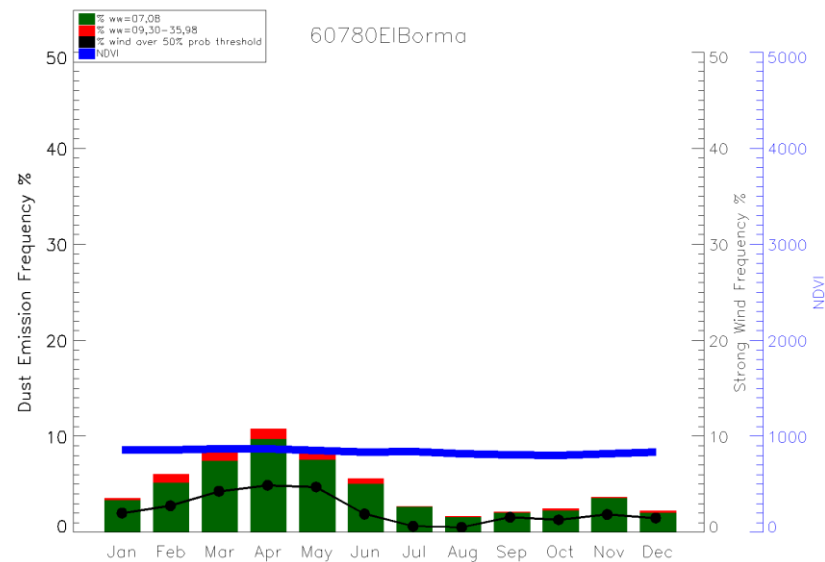
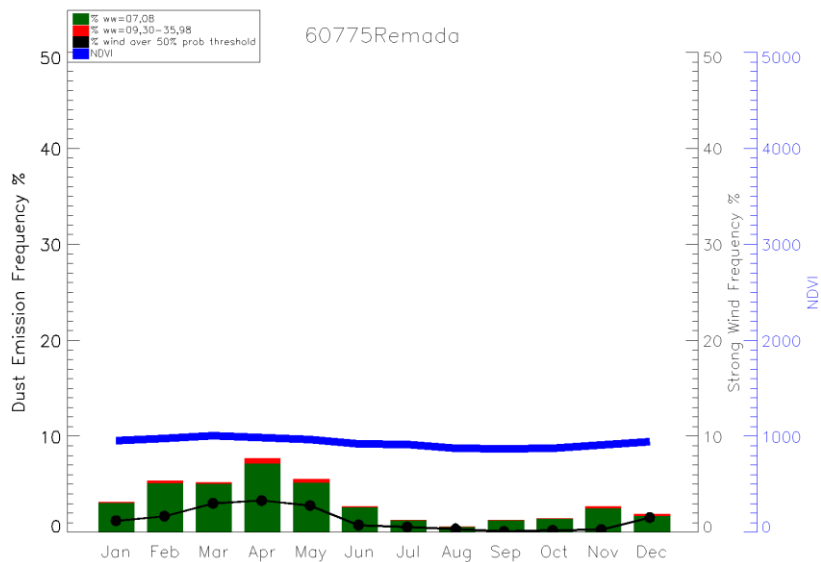
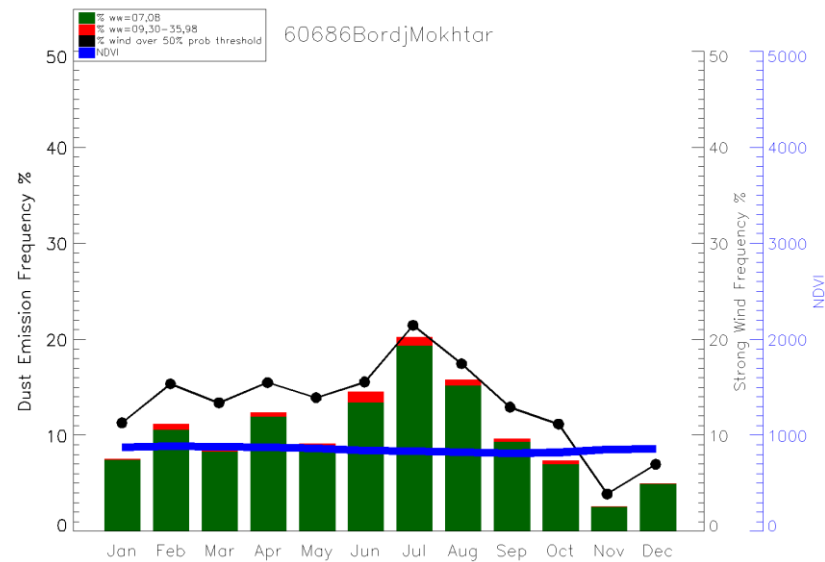
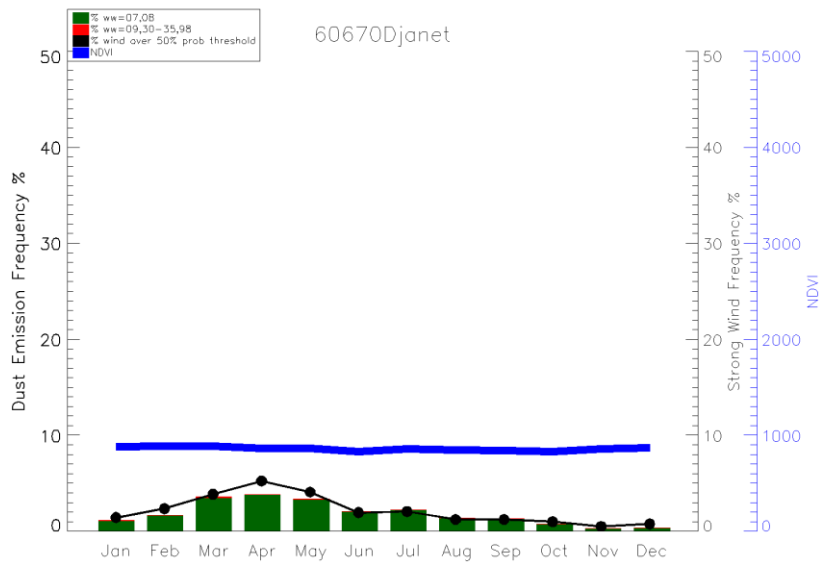


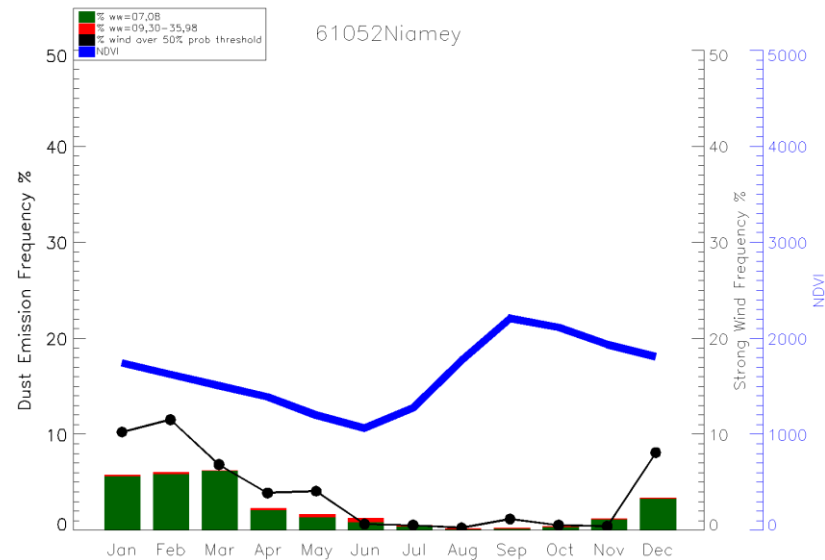
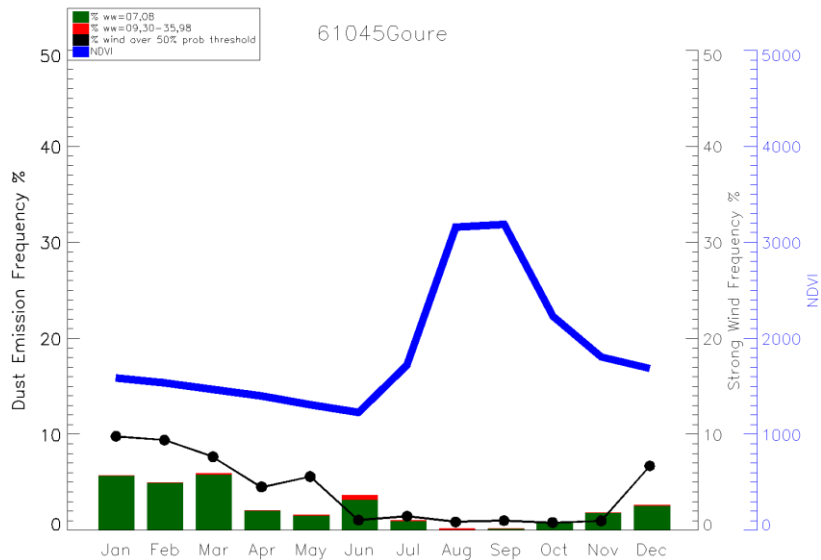
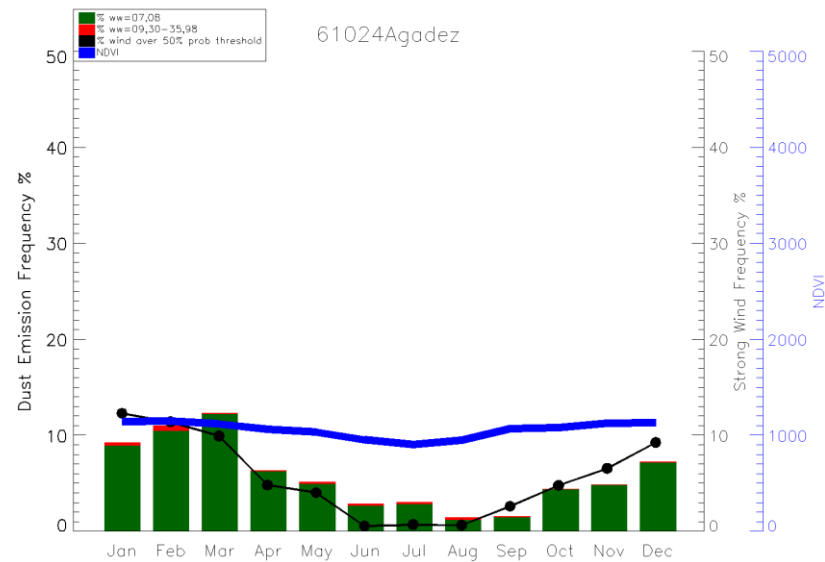
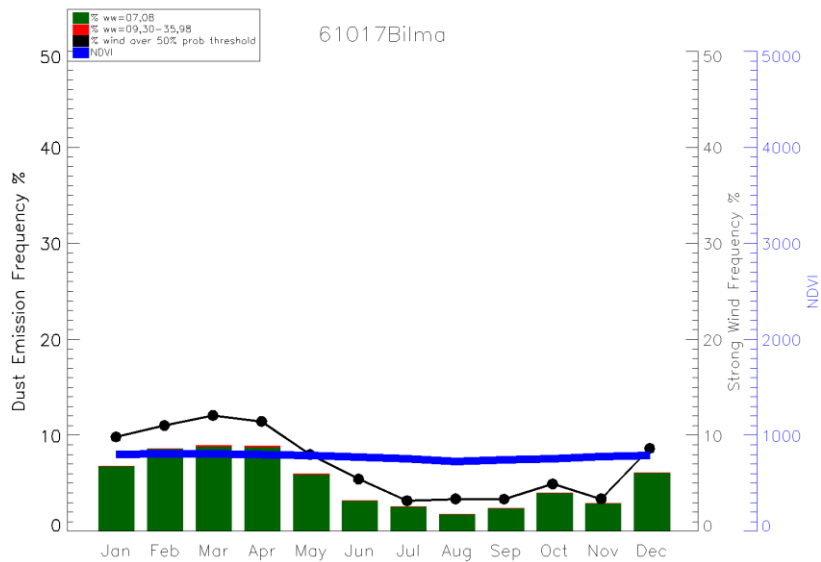


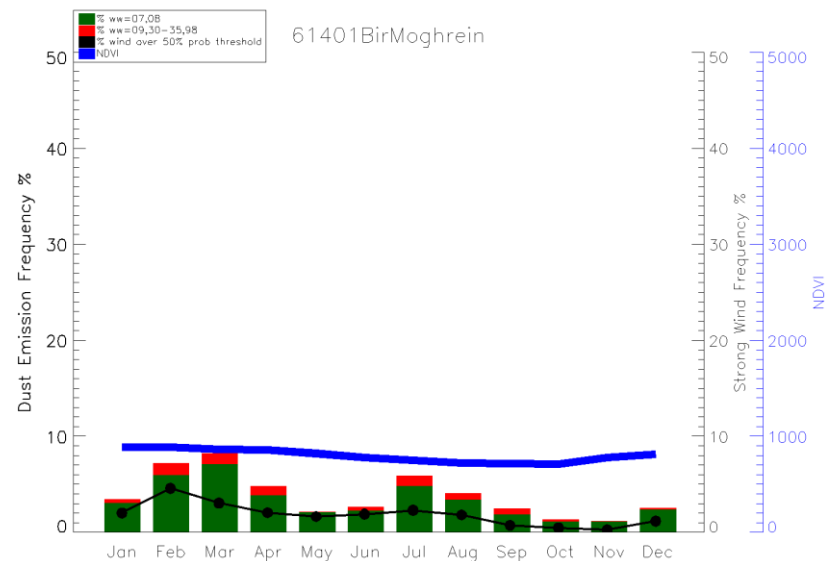
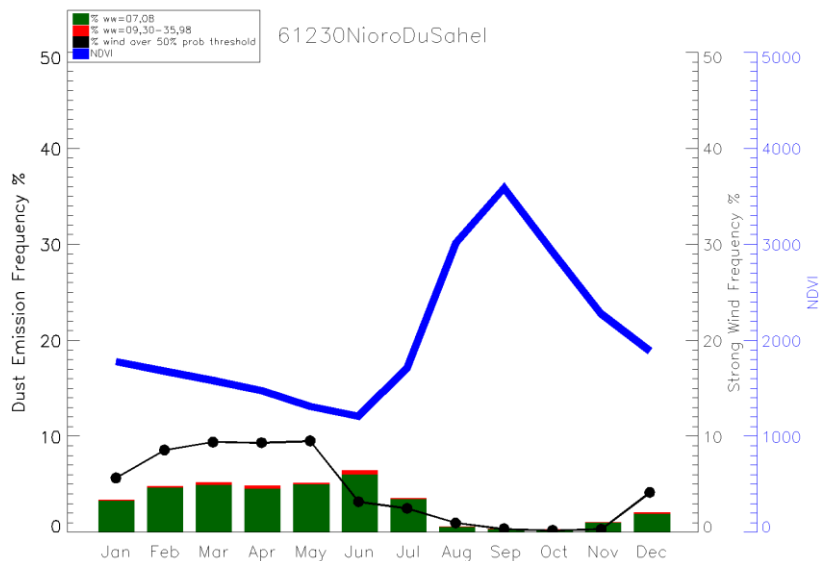
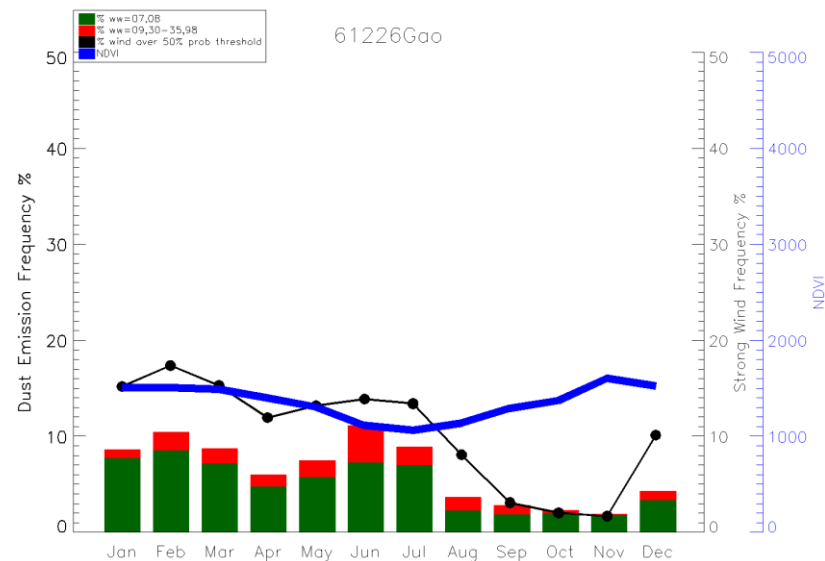
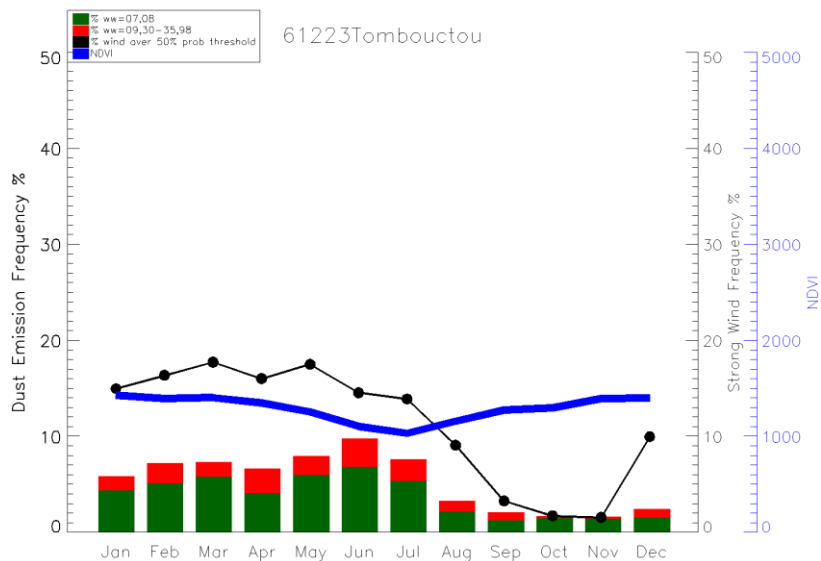


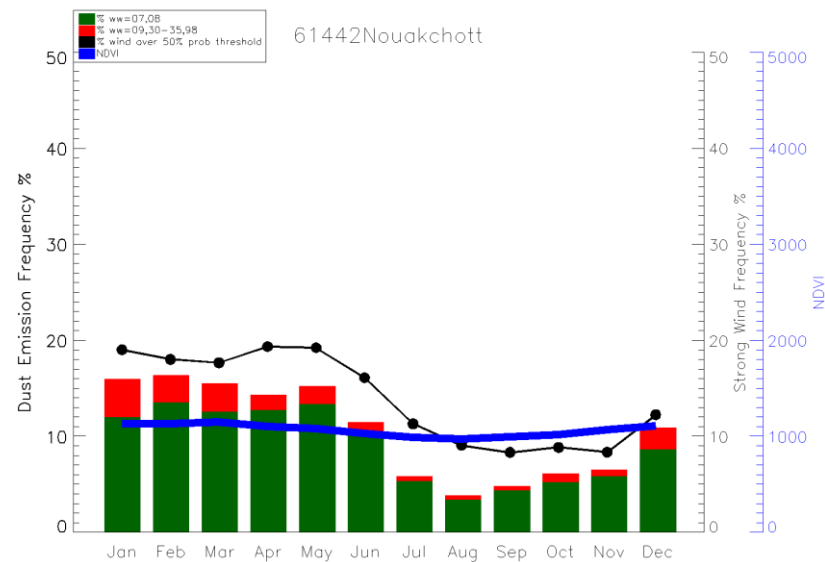
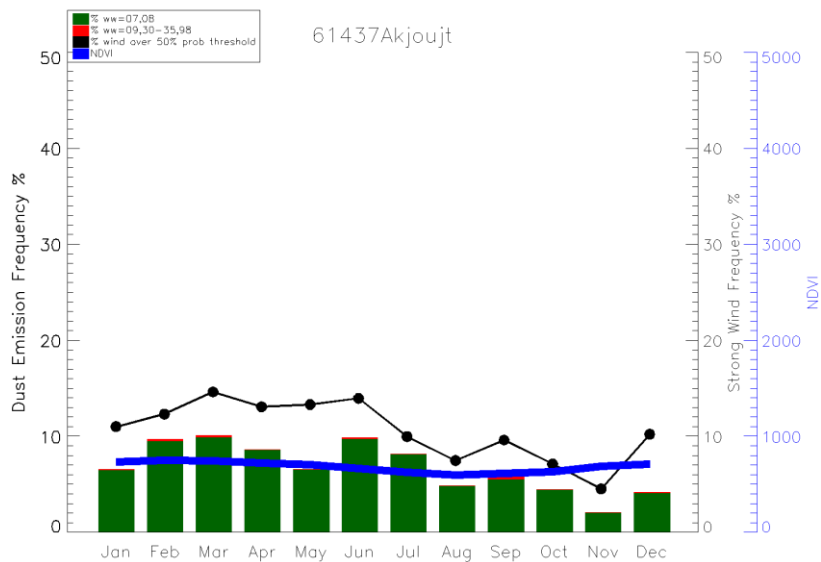
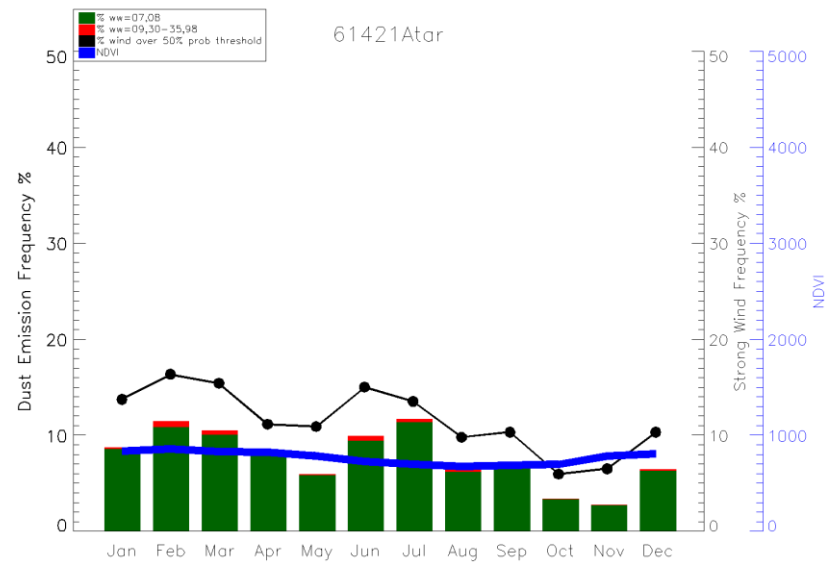
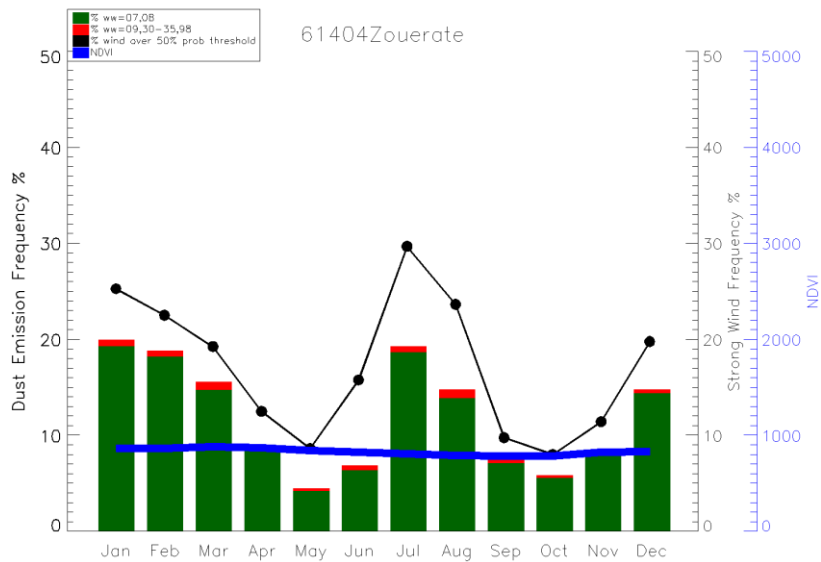


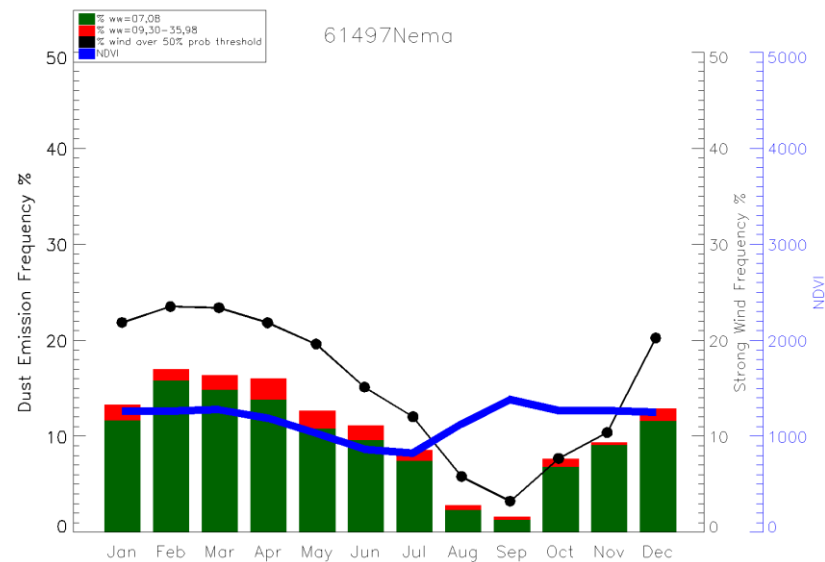
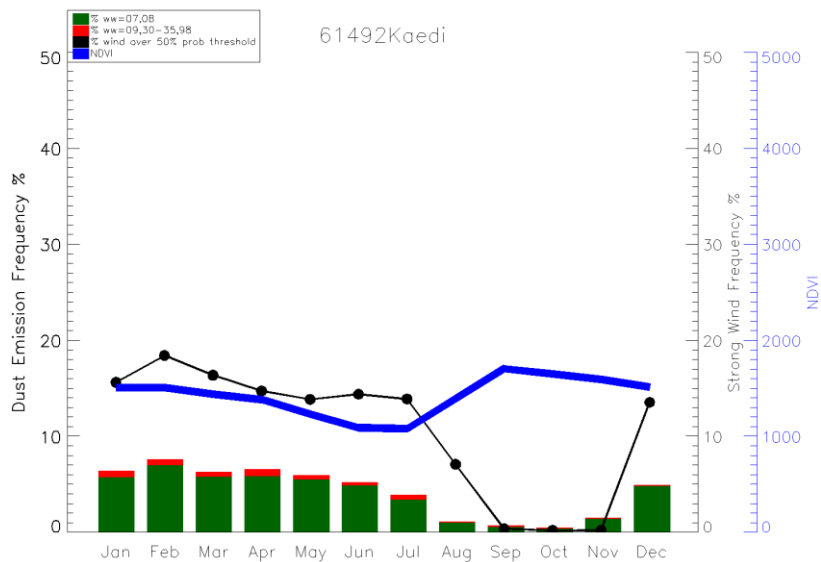
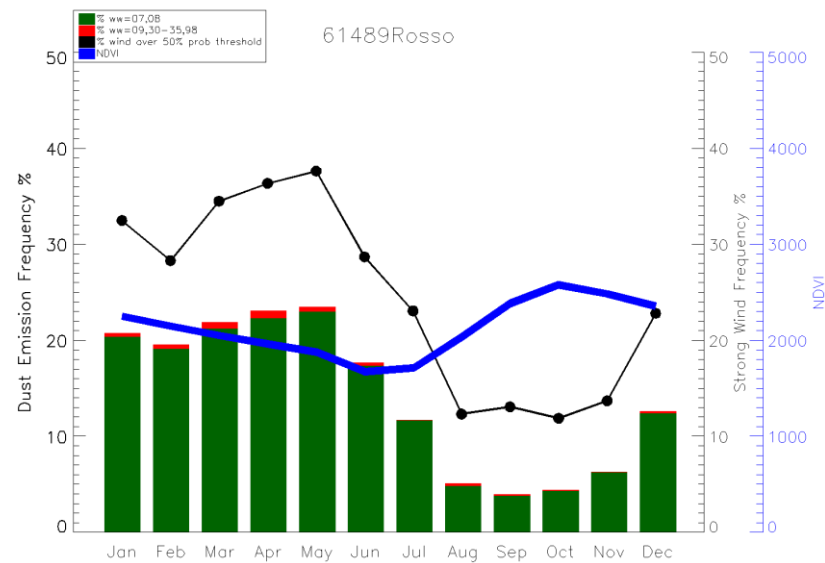
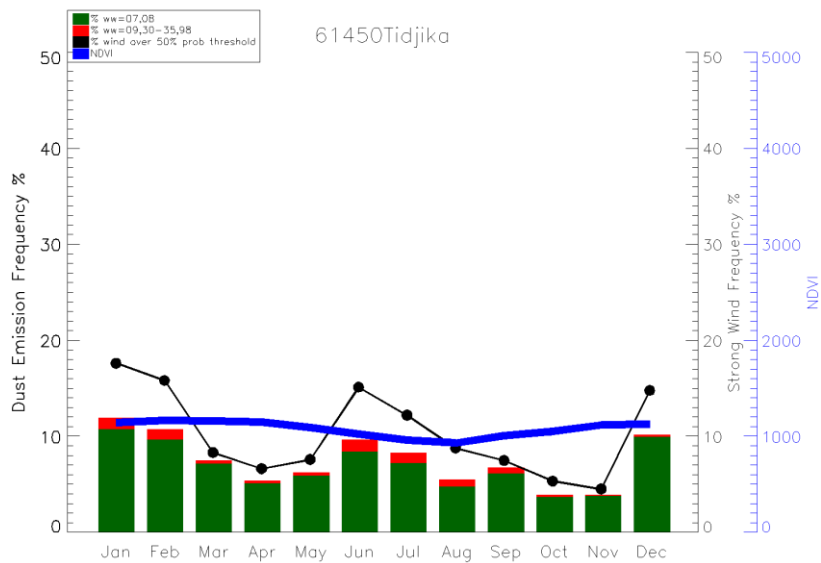




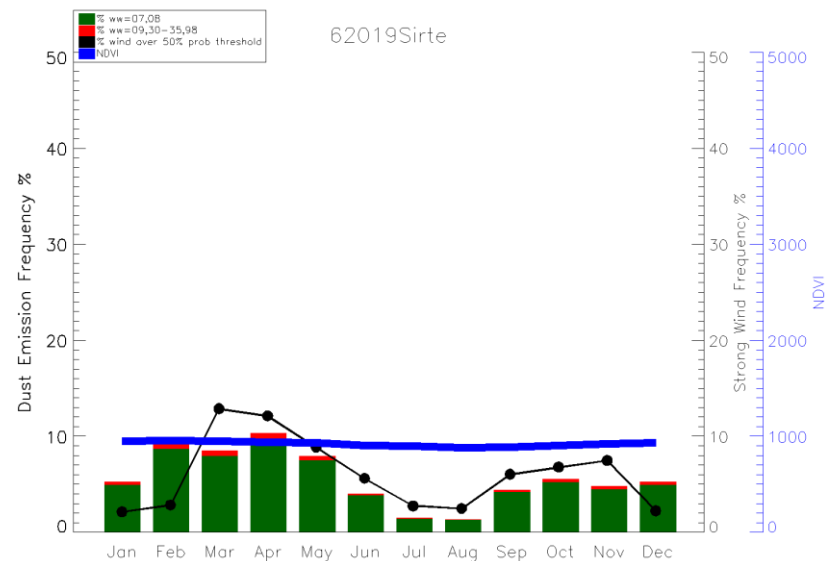
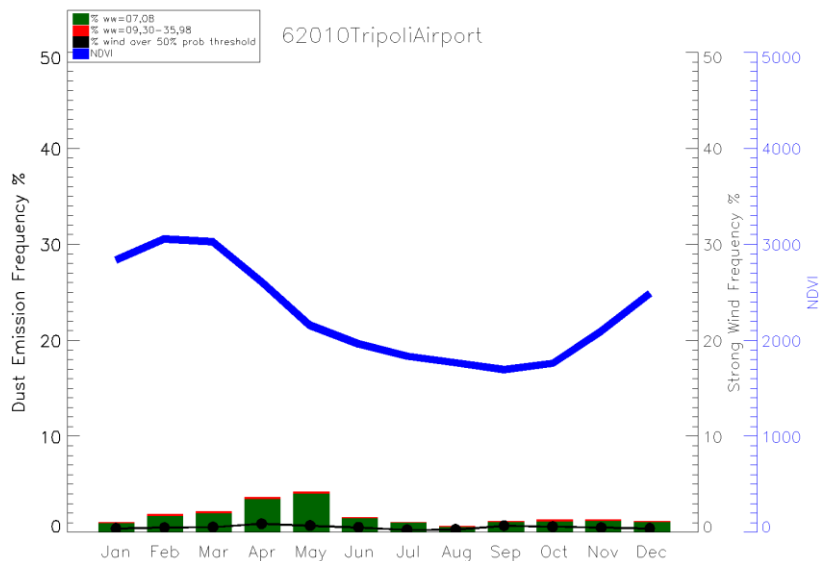
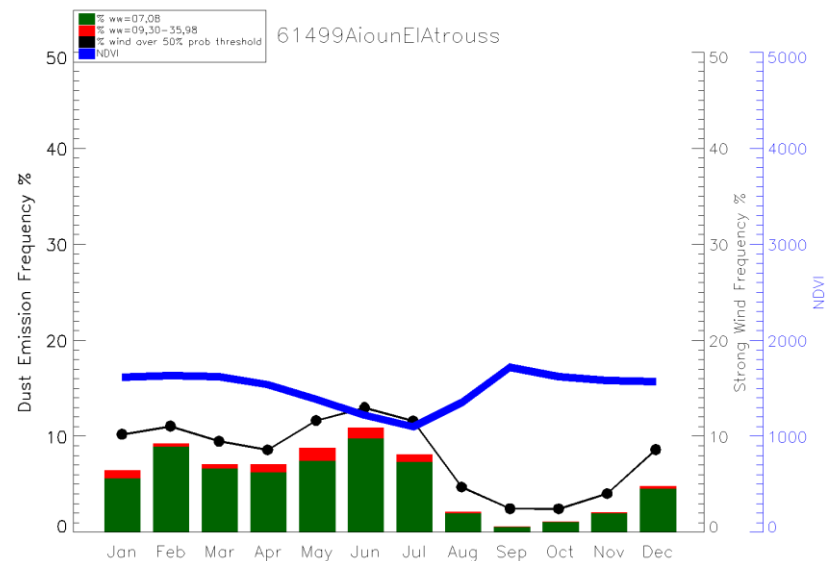
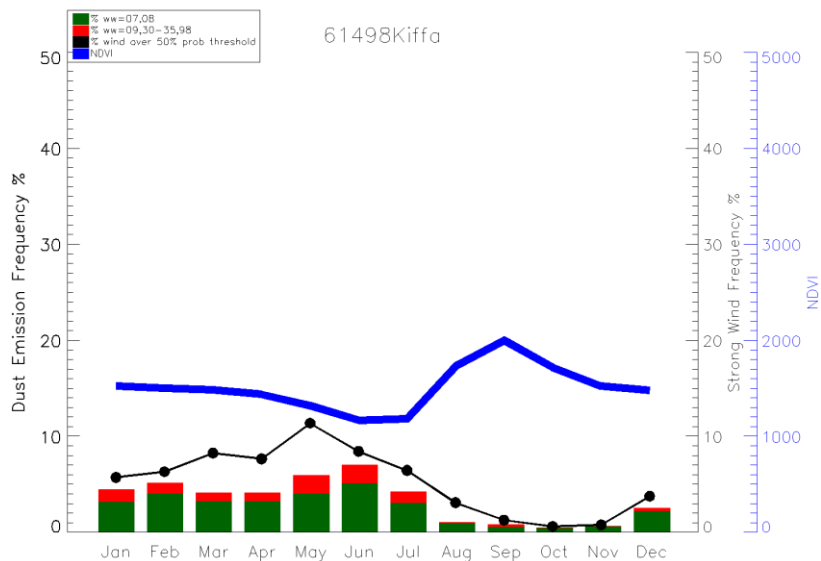


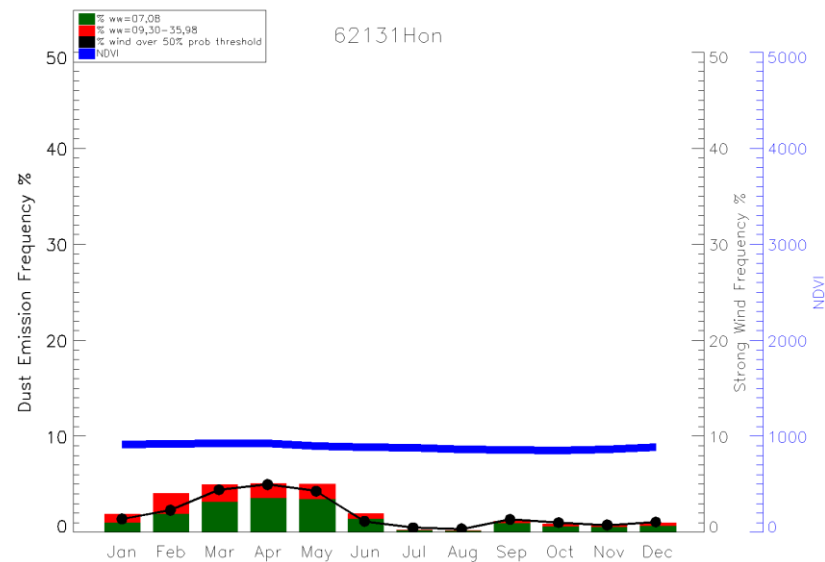
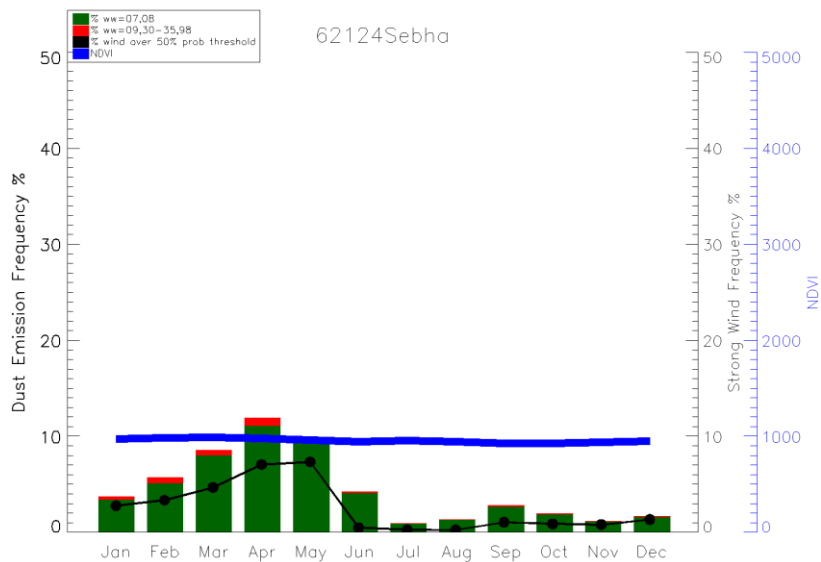
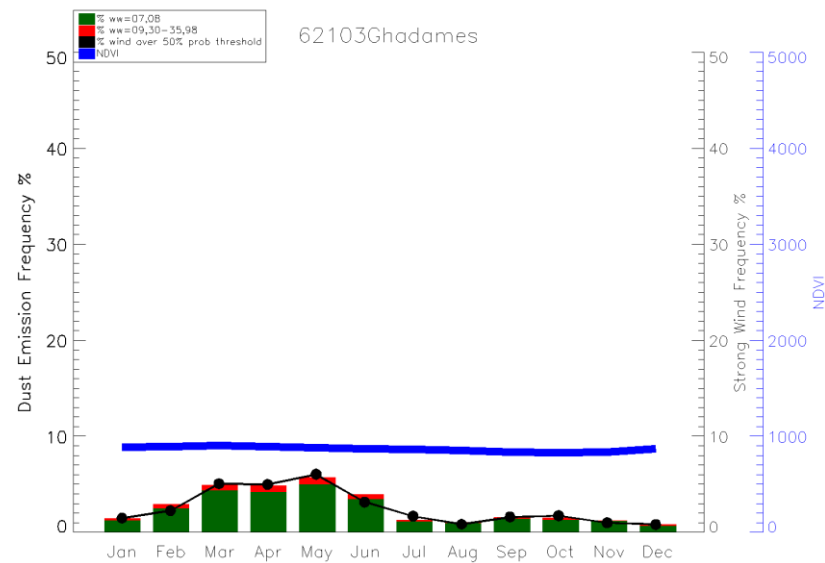
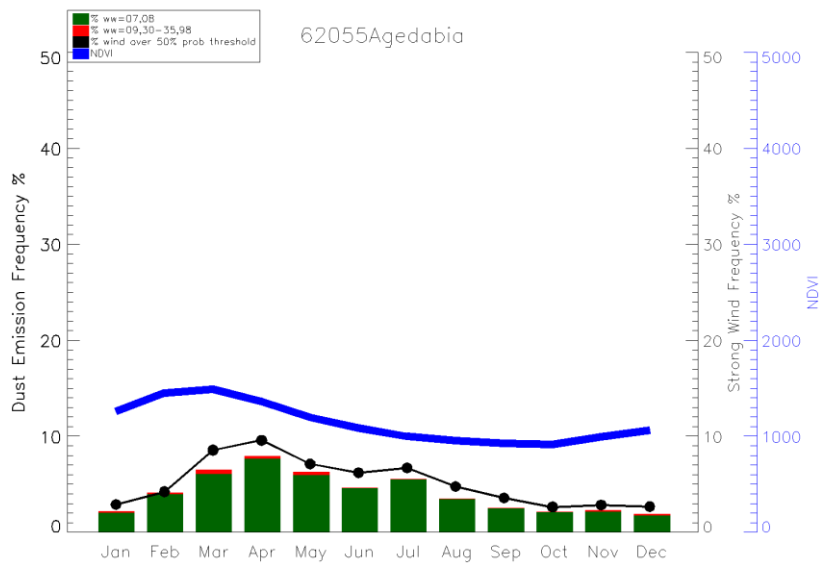


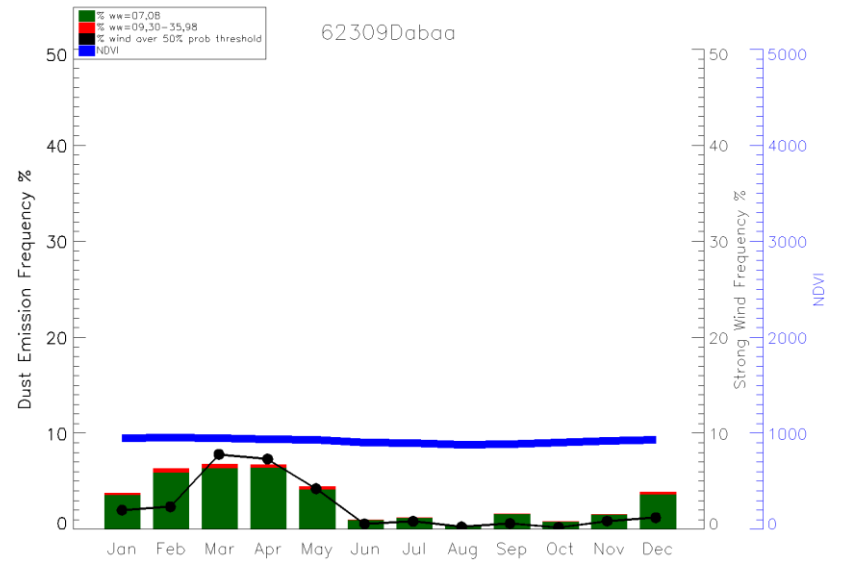
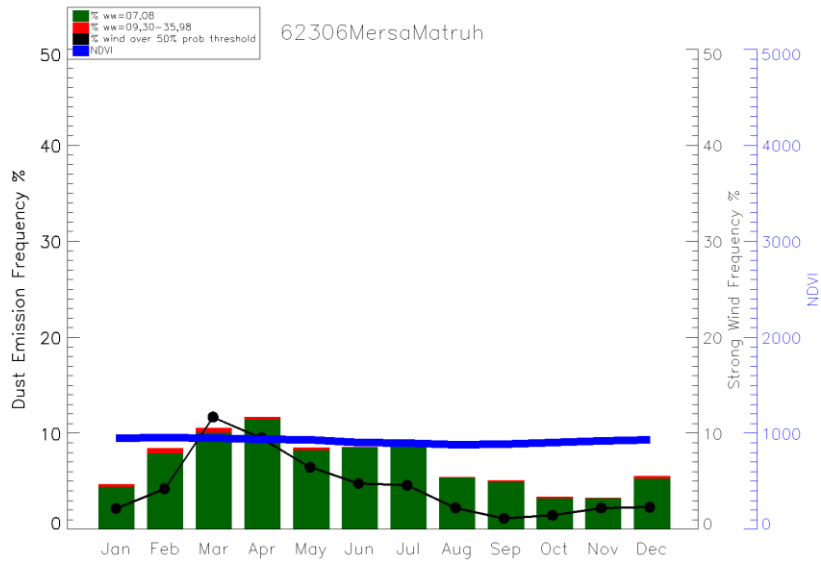
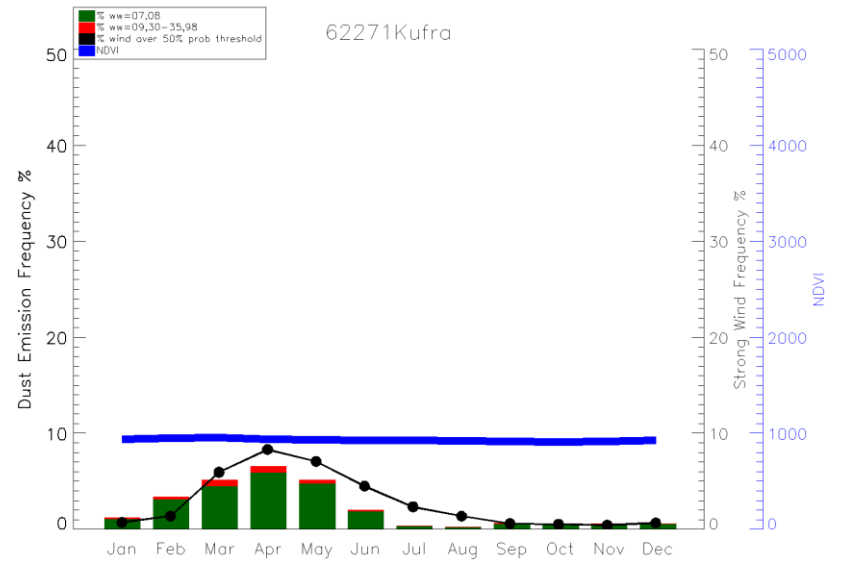
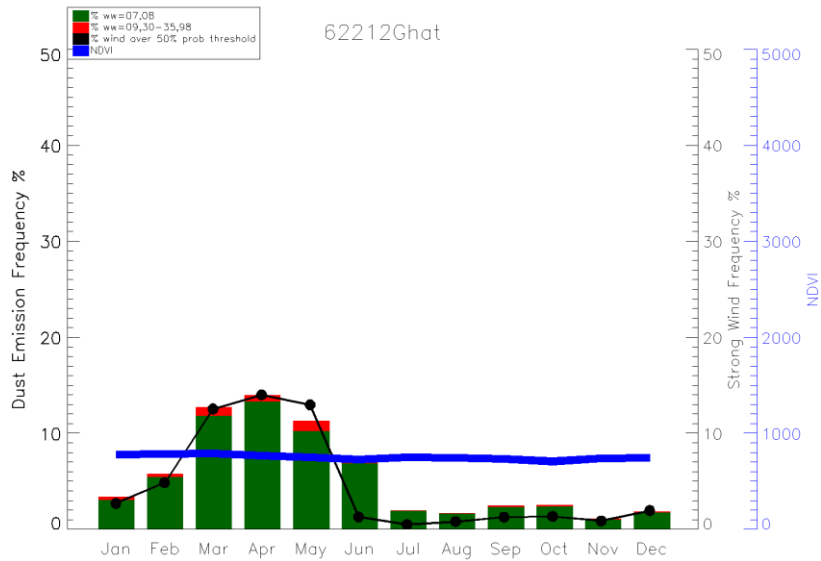


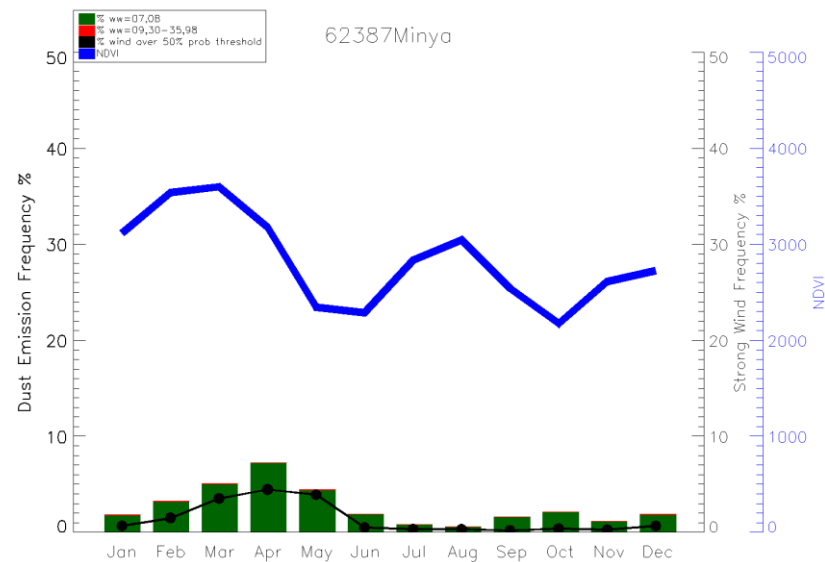
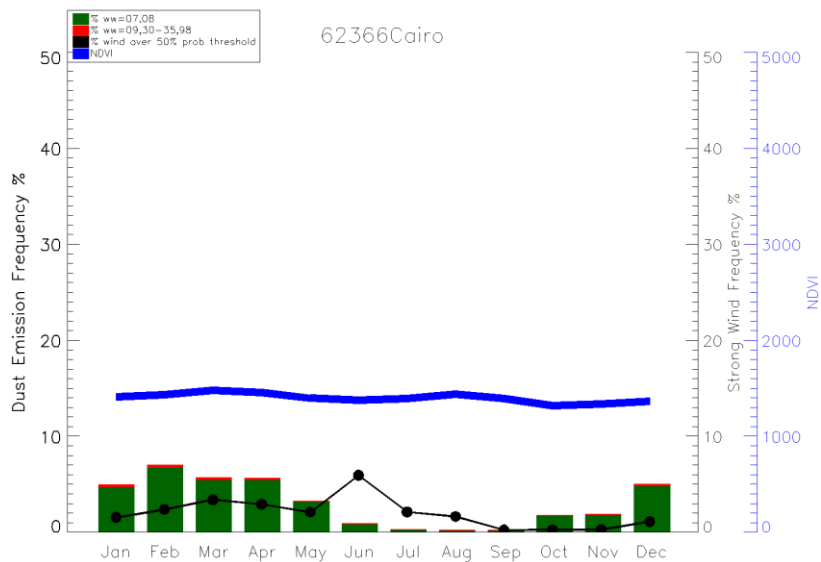
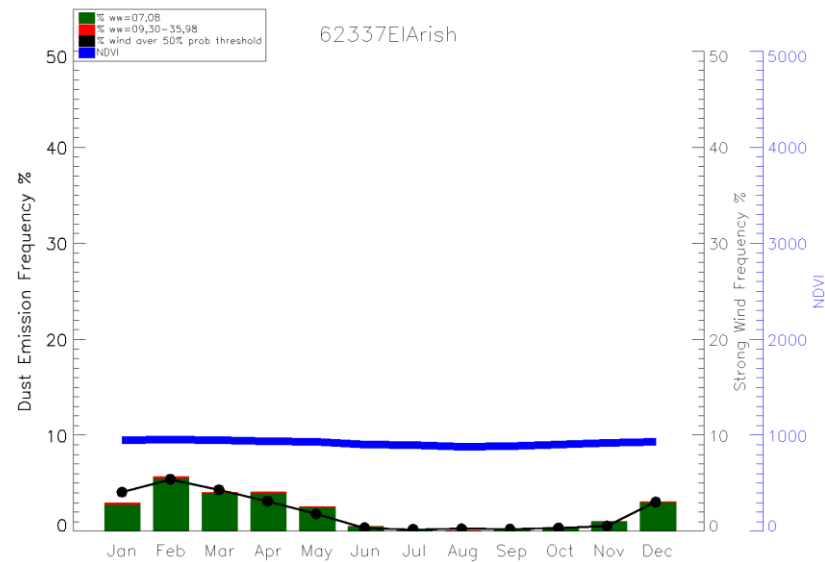
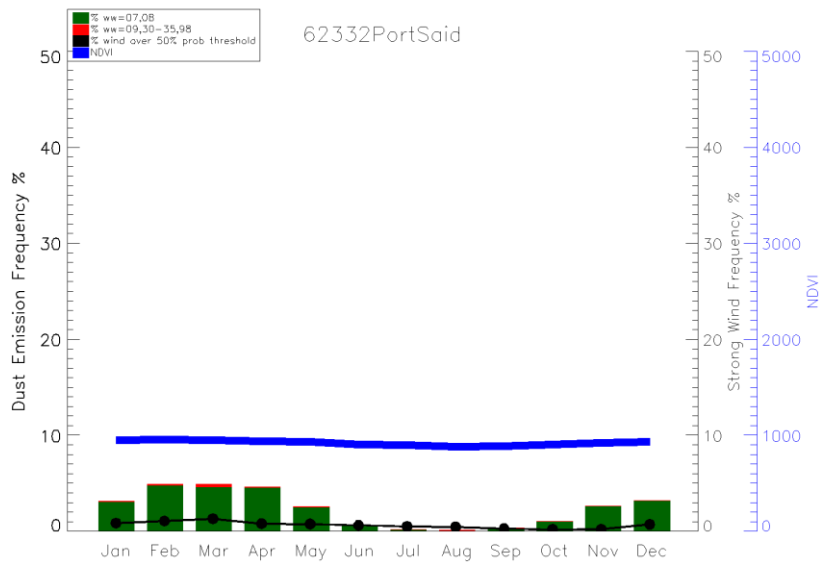


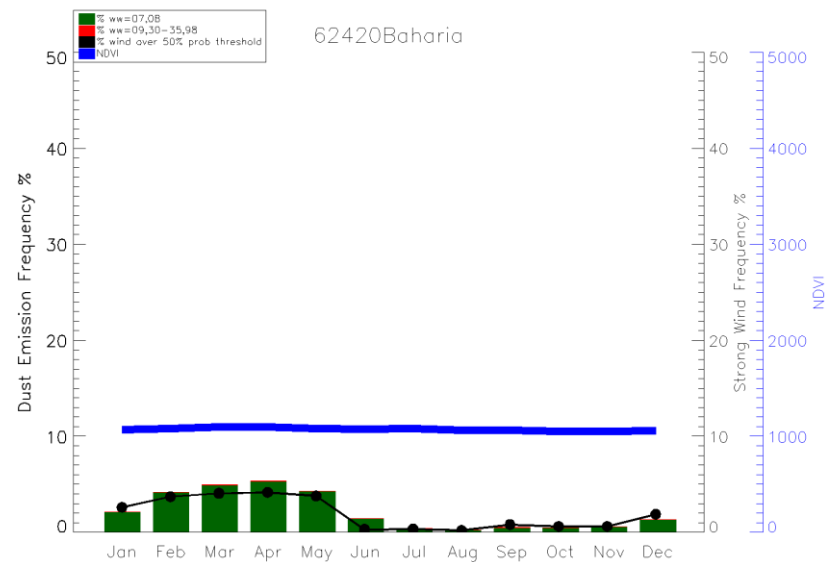
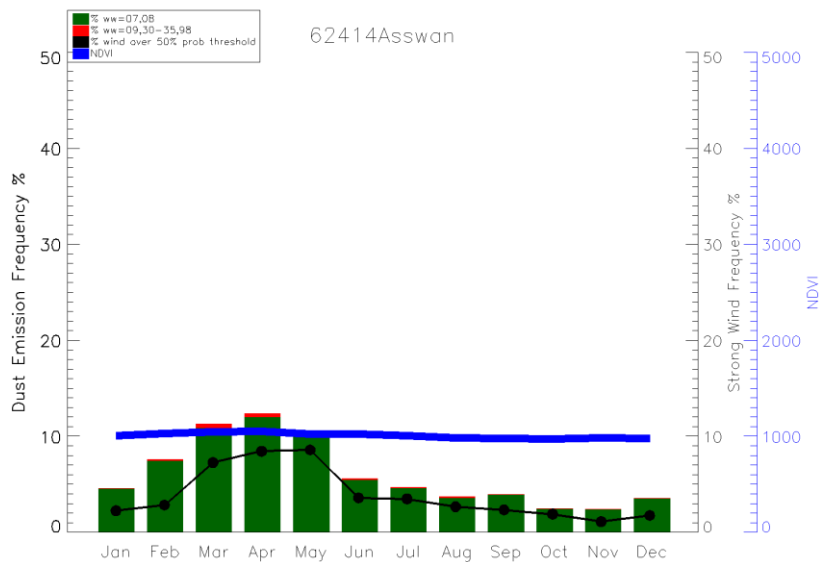
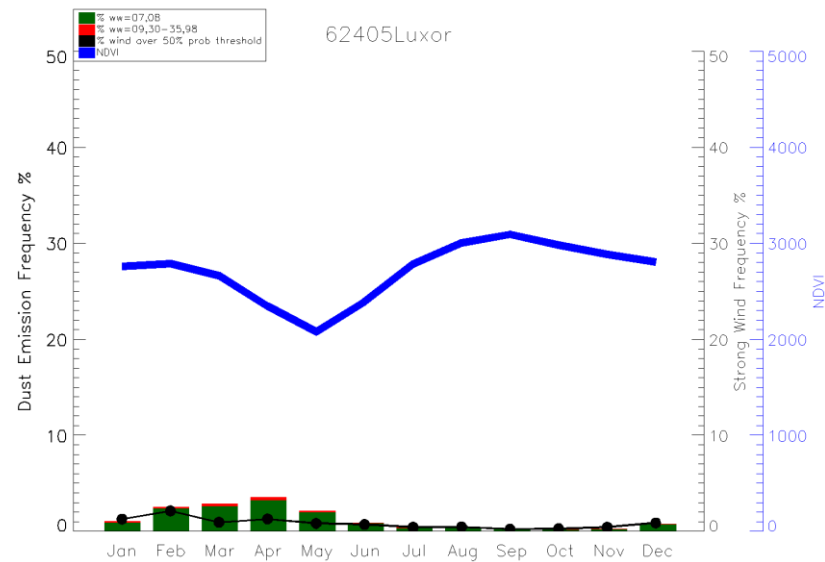
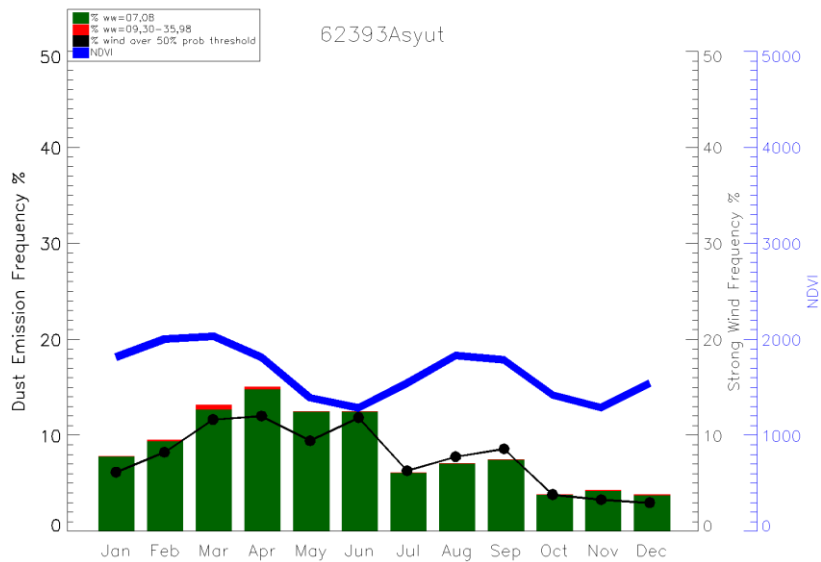


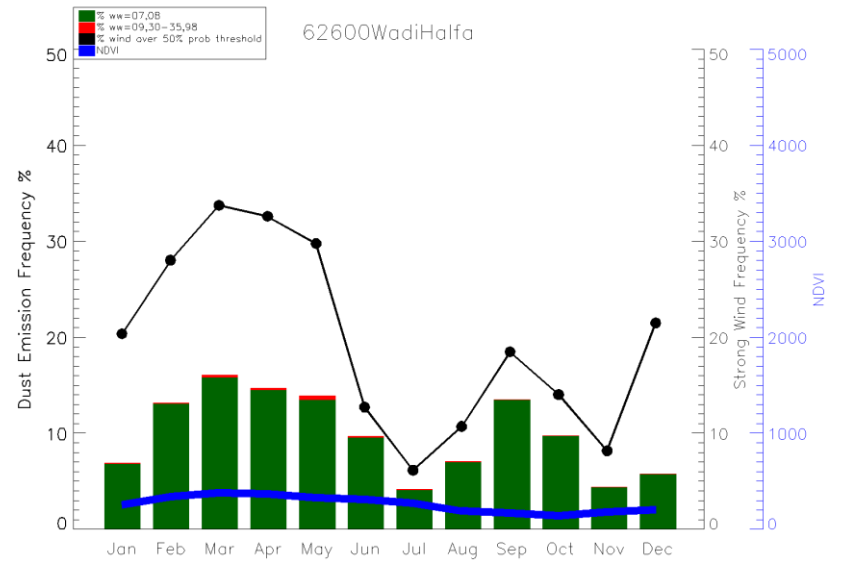
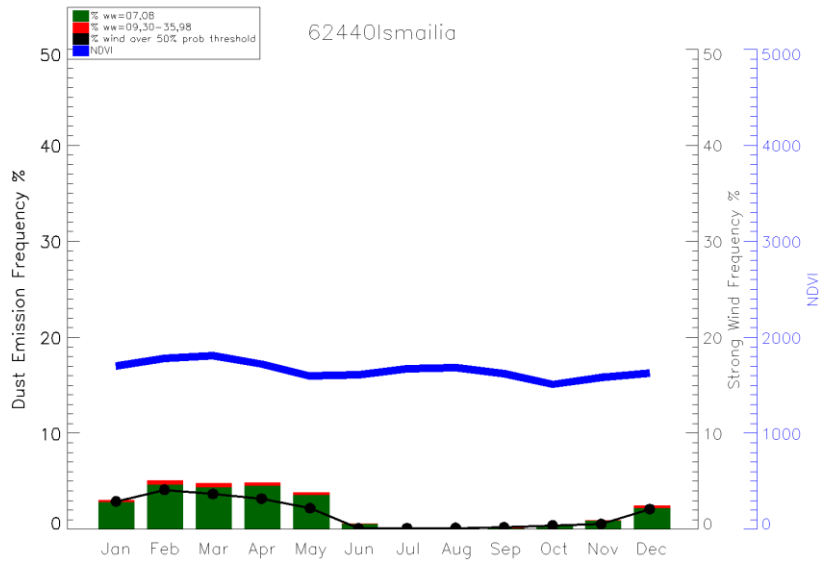
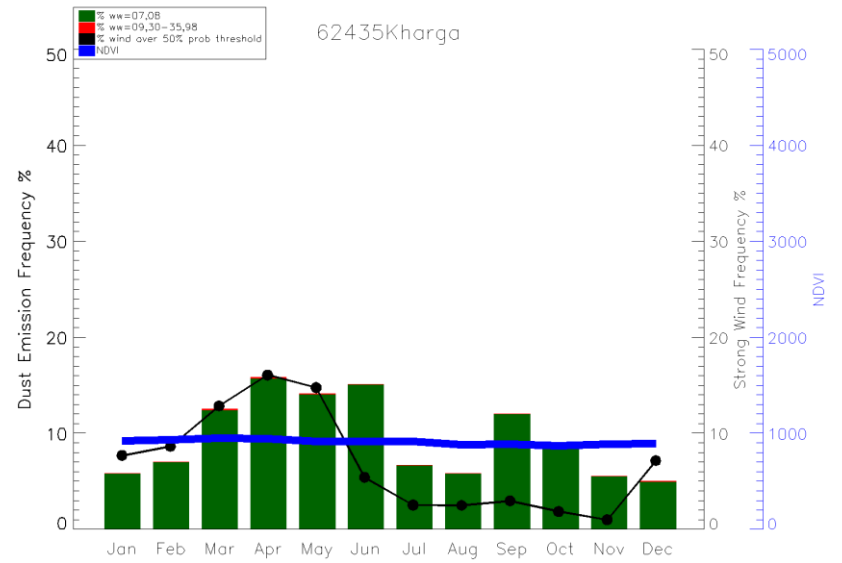
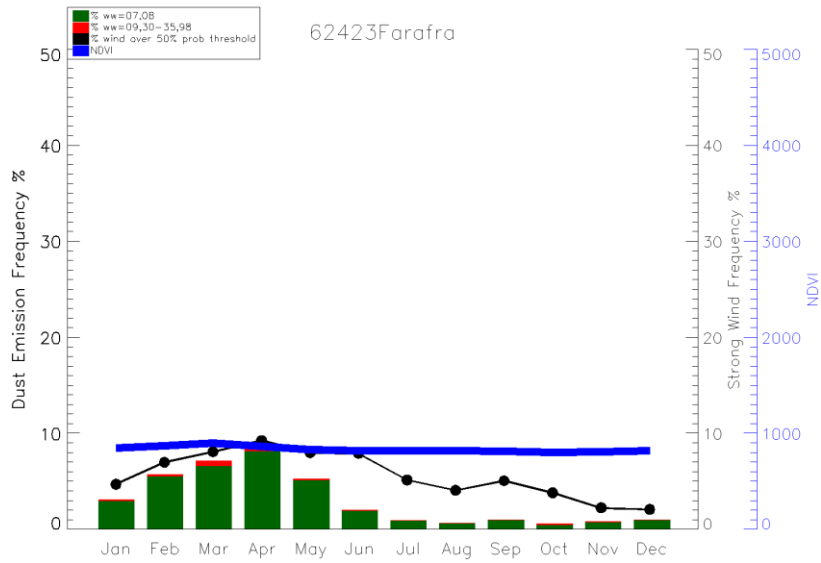


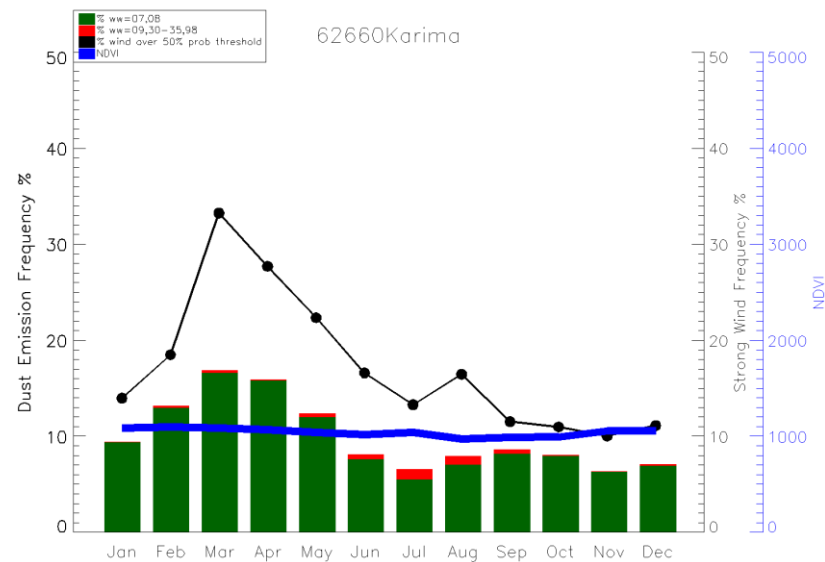
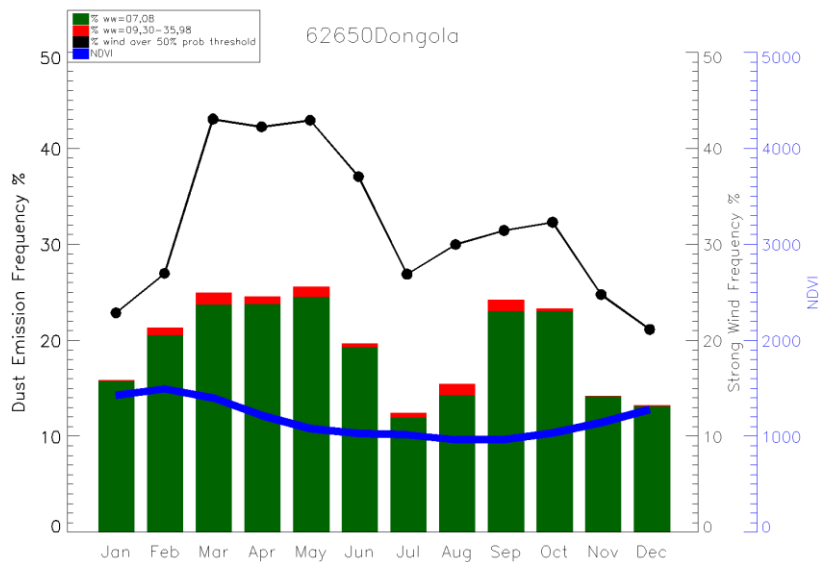
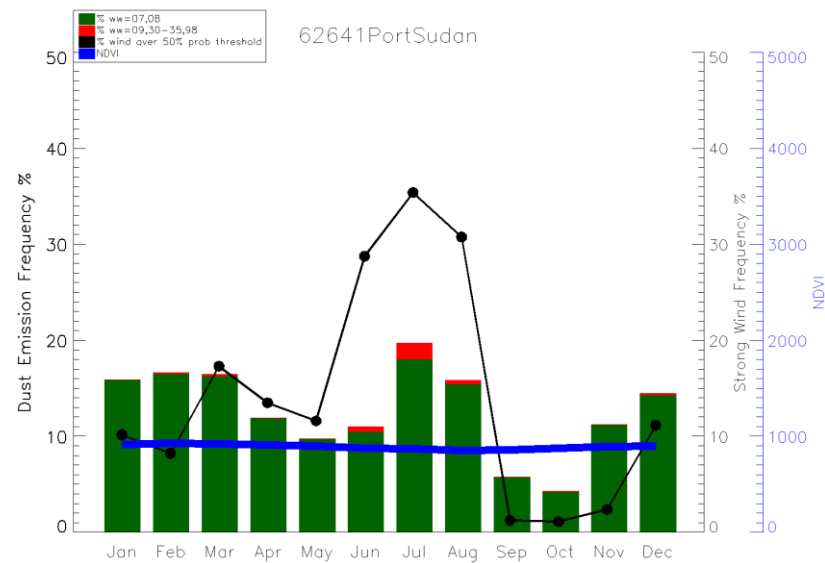
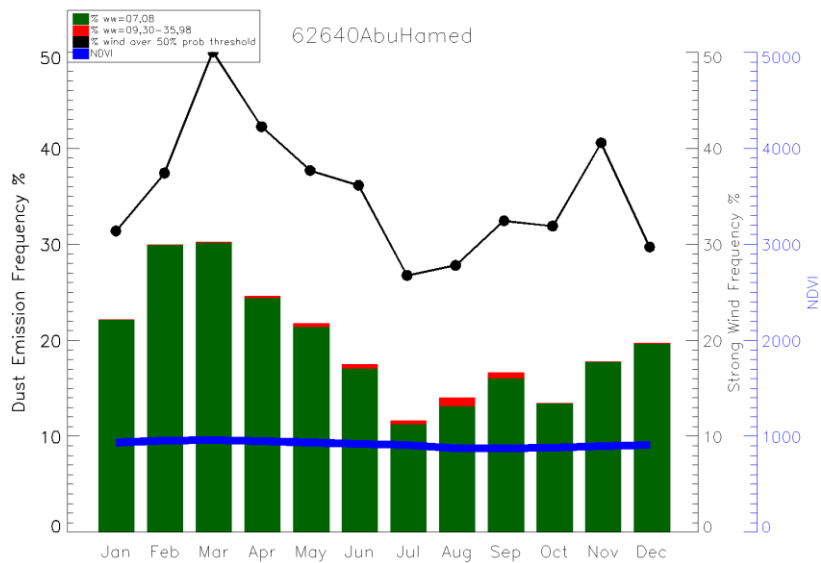


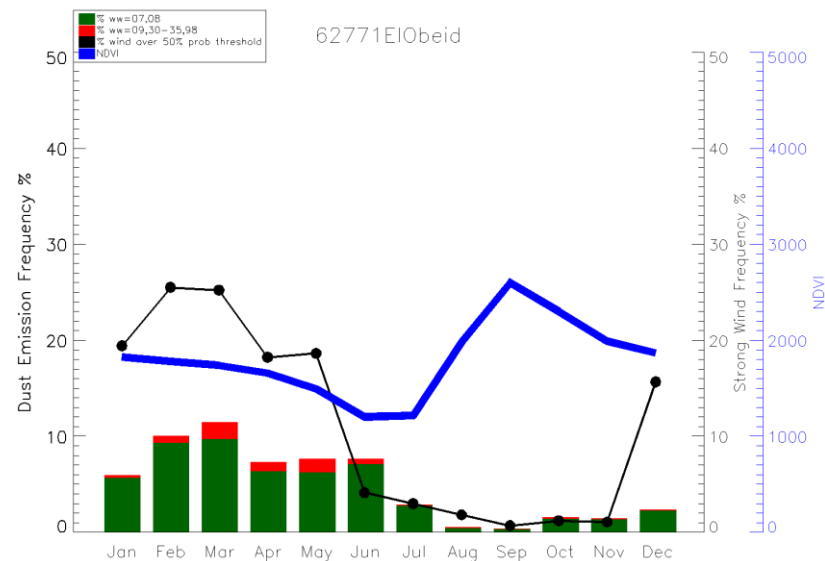
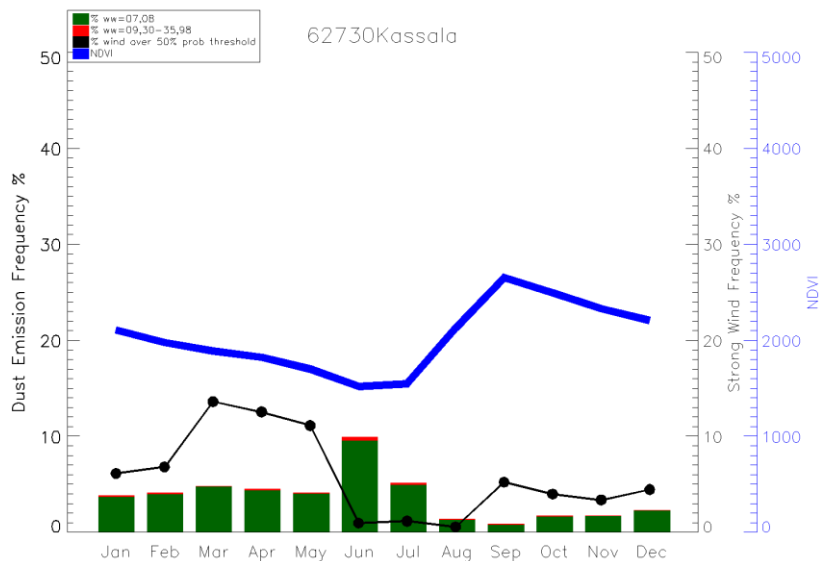
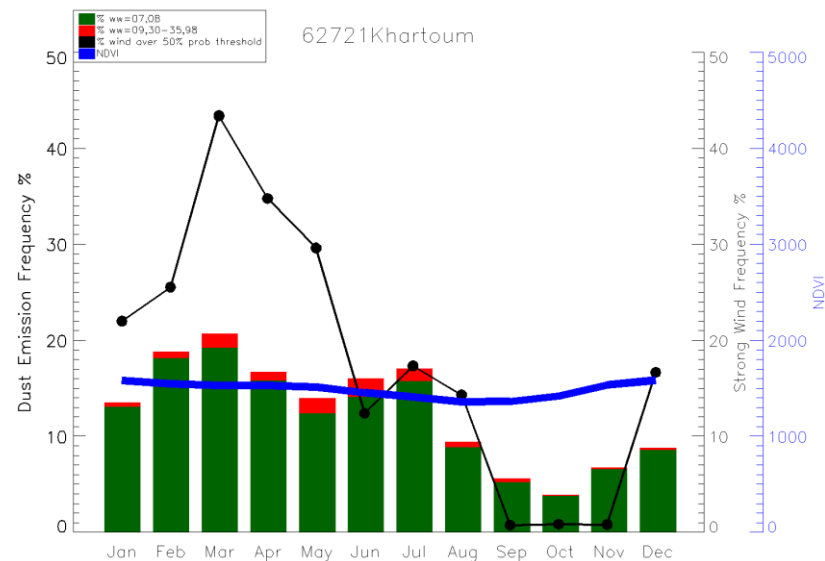
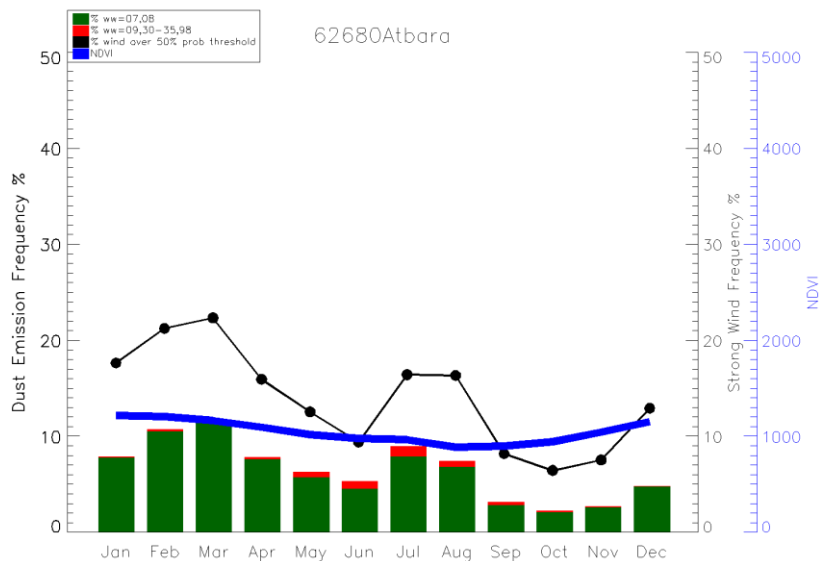














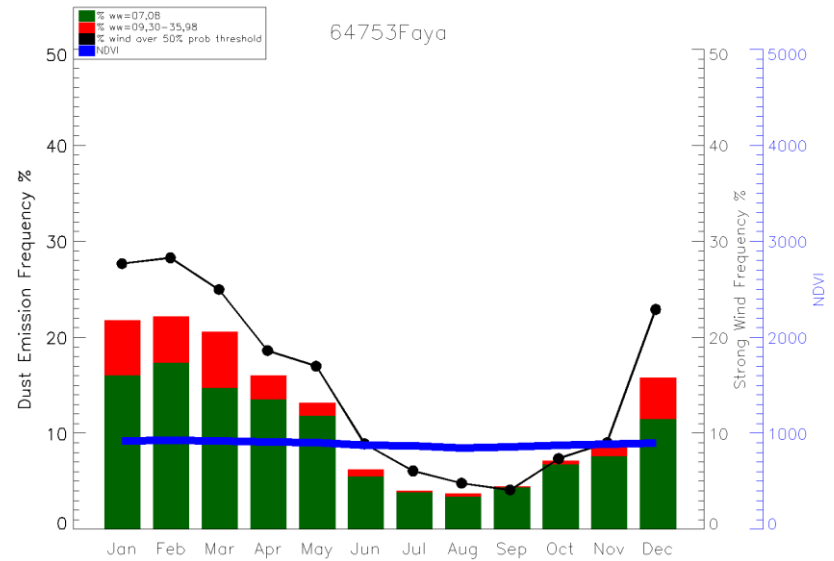
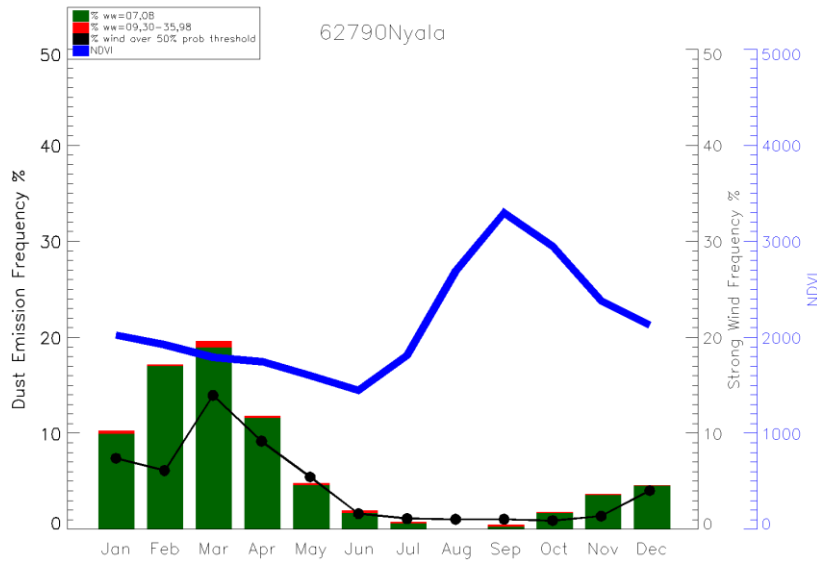


Figure S4. Mean seasonal cycle of frequency of dust emission (FDE) and strong wind frequency (SWF) for each of the 70 stations. Monthly mean FDE is split into BDF (green bars) and DSF (red bars) (for definitions, see main paper section 2.1.1), as well as monthly mean NDVI (blue lines) calculated for a 24km×24km box centred on each station. Strong wind frequency (SWF; black dotted line) is calculated for winds over T50 (see main paper, section 2.2.1) at each station.